



Himanshu

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Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech.	IIT Guwahati	7.16 (Current)	2018 - Present
Senior Secondary	CBSE	92.2%	2018
Secondary	CBSE	9.8	2016

Projects

- **IITG EduPortal** May 2020 - July 2020
Personal Project
 - Developed an E-learning and Academic Management Website for students of IITG using **Google Firebase**, **Django** and **Java Script** which enables students to enroll in a course or create their own course channels, *upload* and *download* video lectures and handouts. Other features include search bar, requesting a book from a user, video playlist and *chat rooms* for discussions.
- **Assembler, Linker Loader and Lexical Parser** Jan 2021 - Apr 2021
Dr. Pinaki Mitra, Professor, Dept. of CSE, IIT Guwahati
 - Implemented 2-Pass Assembler, 2-Pass Linked Loader for SIC/XE Machine Assembly Language and Lexical Analyser for PASCAL grammar using **C**, **C++** and **Lex** Languages.
- **Immersive Digestive System VR Tour** Jan 2021 - Apr 2021
(Team Project) Dr. Samit Bhattacharya, Professor, Dept. of CSE, IIT Guwahati
 - Designed an Immersive VR Application for primary school students providing them with a visual insight into the Digestive System and prepared **SRS**, **Usability** and **Design** Documents along with **UI Prototypes** to conduct **Empirical Research** and evaluated the design.
- **Artist Website** Aug 2021 - Sep 2021
Personal Project
 - Developed and hosted a Responsive-Website using **HTML**, **CSS** and **Java Script** on the frontend. Website showcases artist's name "D3STNY" along with the Music-Releases and Social Links.

Experience

- **Chegg** 5 May 2021 - Present
Subject Matter Expert, Computer Science
 - Joined as an Independent Contractor to solve doubts and questions posted by students from various domains of Computer Science.

Technical Skills

- **Programming Languages:** C, C++, Python, JavaScript*
- **Web Technologies:** HTML, CSS, Bootstrap, Django
- **Database Management:** MySQL, Google Firebase
- **Miscellaneous:** Git, Bash Scripting, L^AT_EX, FL Studio
- **Operating Systems:** Windows, Linux

* Elementary Proficiency

Key Courses

- Data Structures and Algorithms (Theory + Lab)
- Design and Analysis of Algorithms
- Database Management Systems (Theory + Lab)
- System Software Lab
- Computer Organization and Architecture
- Computer Networks (Theory + Lab)
- Implementation of Programming Languages Lab
- Software Engineering (Theory + Lab)

Extracurriculars

- **Music Producer**, Gathered over **130,000** streams in total under the artist name "**D3STNY**" on various music platforms such as Spotify, Apple Music, YouTube etc.
- **Theatre**, Music composition and assistance in the plays Kharashein, Chuhal and Dusri Galti presented by **Xpressions, The Dramatics Society of IIT Guwahati**.
- **Sound Design**, Involved in the Sound Design and Editing of the Music in **Techniche's Promotional Trailers** in 2019, 2020 and 2021.

Achievements

- **JEE Mains 2018:** Secured **AIR 12281** among **1.05 million** candidates appearing for the test.
- **JEE Advanced 2018:** Secured **AIR 7700** among **0.17 million** candidates appearing for the test.



Jagana Vineeth

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Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech	Indian Institute of Technology, Guwahati	5.82 (Current)	2018 - Present
Senior secondary	APBIE	87.2%	2018
Secondary	CBSE board	8.8	2016

Experience

- **Training Engineer at 'RINL'** *May 2021 - June 2021*
Worked on designing website for receiving queries from the staff and the consumers. Also tried to create API authentication.
- **Intern at 'The Sparks Foundation'** *July 2021*
Designed methods to improve the existing database management and improve efficiency in the transactions among customers.

Projects

- **Fine-Grained Entity Recognition** *Ongoing*
Dr. Amit Awekar, Assistant Professor, Dept. of CSE, IIT Guwahati
The natural Language processing task of classification of named entities where there are diverse and large number of pre-defined categories. I focused on the comparative analysis of datasets and models for these entity recognition.
- **Cotton-Disease Prediction** *Oct 2021*
Application which takes images of cotton leaf and predicts whether the plant has cotton disease or not. I used Transfer Learning Deep learning model.
<https://git.io/JujLR>
- **Image Classification** *Sep 2021*
This is an Image Classification application using Transfer Learning Deep Learning model.
<https://git.io/JujLo>
- **Basic Banking System** *July 2021*
It is a simple app that lets users perform transactions between each other and saves transaction history. Used EJS, CSS, Mongo, Nodejs, ExpressJS.
<https://git.io/JujLm>
- **Login and Register** *May 2021*
Basically designed the website for login, register and view account. Other functions like reset password, invalid account and access denied using Nodejs.
<https://git.io/JujLy>

Technical skills

- **Programming languages :** C, C++, Python*, Javascript
- **Web technologies :** HTML, CSS, NodeJs
- **Database management :** mySQL
- **Miscellaneous :** Pytorch , Express.js, MongoDB*, Keras*
- **Operating system :** Windows, Linux

* Elementary proficiency

Key courses taken

- Algorithms and Data Structures
- Probability and Random Process
- Deep Learning and Machine Learning*
- Computer Networks

* To be completed in Dec 2021

- Operating Systems
- Computer Architecture and Organization
- Database Management System lab
- Discrete Mathematics

Achievements

- **Joint Entrance Examination 2018 :** Secured All India Rank 1876 among 1.25 million candidates appearing for the test.
- **International Mathematics Olympiad :** Qualified for state selection by securing a position in top 36th rank in our city.
- **CCRT contest :** It is a central government department for cultural, visual and fine arts. It gives scholarships to only 200-300 highly talented members by conducting multiple levels of tests around country. I was selected to appear in the finals of selection rounds in Art (drawing) category in year 2013-14.

Extracurriculars

- **Independence day Marchpast 2018 :** Represented my hostel in the Independence day marchpast.
- **District Cricket Camp:** Selected for VDCA(Visakhapatnam District Cricket Association) Under-14 and went for State Qualifiers.
- **POR :** I worked as Associate Cultural Secretary at Delhi Public School , Visakhapatnam.



Khandesh Sai Lokesh

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech	Indian Institute of Technology, Guwahati	7.16 (Current)	2018-Present
Senior Secondary	Board of Intermediate Education, T.S	97.00%	2018
Secondary	Board of Secondary Education, A.P	9.8	2016

EXPERIENCE

- Finlatics** Jul 2021 - Aug 2021
Investment Banking Analyst Github
 – Analysed various aspects of Private Equity and Venture Capital Such as, different Stages of PE Investments, cycle of a PE fund and Various Exit strategies used by PE fund.
 – Done a detailed Case study-based Project on one of the successful early stage buyback conducted by OYO Founder Ritesh in 2019.

PROJECTS

- Amazona Ecommerce Website** May. 2021 - Jul. 2021
Personal group Project Github
 – Built a fully-functional ecommerce website with user-friendly frontend and scalable backend .Deployed the website on Heroku cloud server and connected it to Paypal for real time payments.
 – Key technolgies used : HTML, CSS, Flex box, React library, MongoDB, Mongoose, Node and Express framework.
- Implementation of Programming language** Jan. 20121 - Apr. 2021
Course Project Github
 – Implemented 2 pass assembler and 2 pass linking loader for SIC Machine Assembly language.
 – Used the LEX compiler to construct a lexical analyzer for PASCAL grammar in BNF.
 – Implemented a code-parser of the PASCAL grammar using YACC and LEX while handling all syntax and semantic errors.
- Capstone Stock Market Analysis Project (Python)** May 2020
Course Project Github
 – An analysis of stock data related to a three car manufacturing companies from Jan 1, 2012, to Jan 1, 2017, using the python libraries such as Matplotlib, pandas, NumPy.
 – Analysed relationship between these stocks by ploting correlation scatter matrix.Observed the histogram plots of Daily returns of these three stocks to get an idea of volatility and also plotted cumulative returns.

TECHNICAL SKILLS

- Programming languages:** C/C++, Python*.
- Database Management:** MySql.
- Web Technologies:** HTML, CSS, Sass, Javascript*.
- Operating Systems:** Windows, Linux.

* Elementary proficiency

KEY COURSES TAKEN

- | | |
|--|---|
| • Data Structures and Algorithms | • Operating Systems |
| • Database Management Systems | • Computer Networking |
| • Software Engineering | • Probability Theory and Random Processes |
| • Computer Architecture and Organization | • Python for Financial Analysis and Algorithmic Trading |

POSITIONS OF RESPONSIBILITY

- Member of the mess management committee**, Kapili Hostel, IIT Guwahati Aug. 2019 - Aug. 2020

ACHIEVEMENTS

- Joint Entrance Examination - Adv(2018):** Secured All India Rank 1853 among 0.16 million candidates appearing for the test.
- Dr AS Rao awards council (ASRAC) 2015,** Secured State rank 28 among 5 lakh candidates appearing for the test.
- National Standard Examination in Junior Science(NSEJS),** Have been placed among the top 10 percent.

EXTRACURRICULARS

- Represented Hostel Volleyball team at Spardha (IITG Inter Hostel Sports Competition).
- Online Tutor at Toppr Community, Solving Maths doubts of IIT Aspirants.



Manish Chandolia

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech.	Indian Institute of Technology, Guwahati	6.83 (Current)	2018-Present
Senior Secondary	CBSE Board	88.8%	2018
Secondary	CBSE Board	10.0 CGPA	2016

PROJECTS

- **Instagram Marketing Automation Script** July 2020
GitHub
Marketing Bot for increasing engagement of an Instagram Handle
 – Enhances the overall reach of a social media handle by increasing engagement with similar accounts using hashtags
 – Studied different elements of **Instagram** website and used **Selenium** to alter the inputs and states of them
 – Worked on different technologies of web scraping such as **BeautifulSoup** and **Urllib** to collect data of accounts efficiently
 – Script can be modified to automate different tasks on various websites such as Google Forms/ Data Entry portals
- **Blog Application** Aug 2021
GitHub
Personal Project
 – Web Application allowing users to read, write and edit blogs/articles with the feature of comments & reviews
 – Added functionalities to website using **JavaScript & SQLite** integrated seamlessly in the template designed using **CSS**
 – Implemented CRUD functions for users using **Django** allowing proper management of articles on blog
- **Snake Game** July 2021
GitHub
Personal Project
 – Classic Snake Game with customised backgrounds and live updating scoreboard with memory of highest score
 – Used **JavaScript classes and EventListeners** to add the moving functionalities & losing conditions to the body of snake
 – Used **HTML & CSS** to make the webpage and design template of the game making it further customizable from back-end
- **Sudoku Solver** July 2020
GitHub
Personal Project
 – Used **Pygame** for implementing a graphical GUI and provide an interactive interface to the application
 – Implemented the Sudoku solver using **Backtracking** algorithm in **Python** language using its class structures

TECHNICAL SKILLS

- **Programming:** Python, C, C++, JavaScript
- **Web Technologies:** HTML, CSS, Bootstrap, WordPress*, Web scraping, JSON
- **Database management:** MySQL, SQLite3
- **Tools/Frameworks:** Tkinter*, GitHub*, CRM systems, Microsoft Office
- **Operating Systems:** Windows, Linux
- **Project Management and Planning:** Analysis, Decision-making, Task Management

* Elementary proficiency

POSITIONS OF RESPONSIBILITY

- **Head, Corporate relations and Marketing | Alcheringa, IIT Guwahati** Apr. 2020 - Apr. 2021
Largest cultural festival of North-East India with 80+ events and 1500+ colleges
 – Spearheaded an elite **3 tier-team** consisting of 20 senior executives and 70 junior executives
 – Deployed the marketing strategy to be followed by various tiers throughout the year
 – Brought in over **40%** of the total budget of fest personally and was involved in **500+ corporate dealings**
 – Devised Branding strategies for over 40+ firms resulting in total worth of **Rs.9 Million**.
 – Formed a **crisis management team** during the unfortunate pandemic of **Covid-19** which was responsible for budget planning of **silver jubilee edition**

KEY COURSES TAKEN

- **Computer Science:** Data Structures and Algorithms, Operating System, Computer Networks, Software Engineering, System Software Laboratory, Database Management Systems, Computer Architecture and Organization, Discrete Mathematics
- **Coursera:** Python Data Structures, Using Python to access Web Data, Using Databases with Python

ACHIEVEMENTS

- **Joint Entrance Examination (Advanced)**, Secured AIR 7902 in 0.20 million candidates 2018
- **KVPY**, National research fellowship scholarship from I.I.Sc. Bangalore 2016
- **NTSE**, National scholarship from NCERT 2016

EXTRACURRICULARS

- **SWC Cult Board Project:** Contributed in development of the cultural board website of SGC, IITG built using **Django**
- **Aero-Modelling Club:** Member of core team of the club.
- **Kriti 2018-2019:** Engineered an RC-plane from scratch and won first place in competition.



Mansharam Nigwal

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Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech	Indian Institute of Technology, Guwahati	5.98 (Current)	2018 - Present
Senior secondary	Jawahar Navodaya Vidhyalaya, Khandwa	88.2%	2017
Secondary	Jawahar Navodaya Vidhyalaya, Khandwa	9.8	2015

Experience

- Agrivision4u** June 2021 - July 2021
 Front-End developer intern
 - Developed front-end magazine section where users can read the uploaded magazine.
 - Design the different front-end modules of the Agrivision4u website using HTML, CSS and javascript and used Bootstrap as a framework for CSS when require.

Projects

- Blog Web Page** [git.io/Juihs](#)
 MERN web application for users to post blogs.
 - Developed a MERN based web application using React, NodeJs, Express and MongoDB. On this web page, users can post their blogs and can read the blogs posted by other users.
 - Registered users can only post blogs and update their blogs. Unknown users can only view the blogs posted by other users.
- Invoice Generator Web Page** [git.io/Juihx](#)
 MEAN web application for customers invoice generator.
 - Developed a MEAN based web application for customer invoicing system. where customers can generate and see their invoices.
 - The application is designed using Angular as front-end and ExpressJs and MongoDB are used as a back-end for storing data. where all the invoices corresponding to the users are stored.

Technical skills

- Programming languages :** C++
 - Web technologies :** HTML, CSS, Javascript , React*, Angular*
 - Database management :** MySQL, MongoDB
 - Operating system :** Windows, Linux
- * Elementary proficiency

Key courses taken

- | | |
|--|--|
| <ul style="list-style-type: none"> Data structure and Algorithm Operating system DBMS | <ul style="list-style-type: none"> Data structure and Algorithm lab Software Engineering DBMS Lab |
|--|--|

Achievements and Extracurriculars

- Athletics Club, IIT Guwahati :**
 - Represented IITG athletics team in 54th INTER IIT Sports Meet.
 - Bagged 4 medals (3 gold, 1 bronze) in athletics in the Spirit annual sports festival of IIT Guwahati.
 - Bagged 7 medals (4 Gold, 2 Silver, 1 Bronze) in athletics and kho-kho in Spardha 2020.



Manshi Sharma

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech.	Indian Institute of Technology, Guwahati	6.82 (Current)	2018-Present
Senior Secondary	MP Board	80.0%	2017
Secondary	CBSE Board	10.0	2015

EXPERIENCE

- Legato** May 2021 - July 2021
Data Science Intern Hyderabad
 – Worked on Bias detection on Adult Census Income dataset. Explored various bias detection toolkits, e.g, Google What-If Tool, Cortex Certifai, etc.
 – Implemented various **Pre-Processing** and **In-Processing** bias detection metrics. Implemented **DPPL** metrics for bias drift detection on live data.
 – Built a web application using **Streamlit app**, which gives the fairness overview of data and model.
- Infinite Analytics** March 2021 - April 2021
Data Science Intern Mumbai
 – Worked on the finding of popularity of tweets in twitter data. Performed data cleaning and analysis. Used **nltk** library for **tokenization**, **lemmatization** and for removing stop words. Built TF-IDF metrics. Used **Hierarchical Clustering** algorithm to create clusters.
 – Worked on the campaigning dataset. Implemented various type of test cases for the extraction of particular type of data from **.json** file.

PROJECTS

- Tic-Tac-Toe** July 2020
Microsoft Github
 – Built a web application to entertain crew by engaging them in playing an unbeatable Tic Tac Toe game powered by AI. Implemented **minimax** algorithm as the intelligence of an AI agent in **JavaScript**.
- Money Manager App** Jan. 2021 - Apr. 2021
Course Project, Prof. Samit Bhattacharya Github
 – Created a designed document of Money Management App for students. Designed the system to make budget, save the online coupons, keep track of credits and debits following complete **Software Development Life Cycle**.
- Bank Transaction Simulator** Feb 2021
Course Project, Prof. Aryabartta Sahu Github
 – Implemented a **Java** program to simulate a bank money transaction system. Implemented requests like cash deposit, cash withdrawal, add a customer, delete account, etc.
- An Improved Scheduling algorithm for real time systems** July 2021
Personal Project Github
 – Came up with a method for **round robin** CPU scheduling which enhances the CPU performance in a real time operating system. The proposed algorithm for real time systems is a hybrid of **priority and round-robin** scheduling algorithms.

TECHNICAL SKILLS

- **Programming languages:** Python, C/C++, Java*
- **Web technologies:** HTML, CSS, Javascript
- **Utilities/Libraries (familiar):** Numpy, Pandas, SkLearn
- **Operating Systems:** Windows, Linux*
- * Elementary proficiency

KEY COURSES TAKEN

- | | |
|-----------------------------------|-------------------------------------|
| • Data Structures(Theory and Lab) | • Design and analysis of Algorithms |
| • Operating Systems | • Database Management |
| • Machine Learning | • Deep Learning |
| • Software Engineering | • Computer Networks |
| • Internet of Things* | • Probability & Random Processes |

POSITIONS OF RESPONSIBILITY

- **City Representative**, Technothlon, IIT Guwahati Dec. 2018 - Sep. 2019

ACHIEVEMENTS

- **Codess (Microsoft)**, Selected as mentee in Codess Microsoft Mentorship Program. 2020
- **Codeforces Round 653**, Secured Global Rank 1056 among 16000+ participants in the coding challenge 2020
- **Joint Entrance Examination Advance**, Secured AIR 1147 among 1.5 lakh candidates appearing for the test. 2018
- **Joint Entrance Examination Mains**, Secured AIR 6198 among 11 lakh candidates appearing for the test. 2018



Mukkanti Venkata Saketh

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech	Indian Institute of Technology, Guwahati	7.09 (Current)	2018-Present
Senior Secondary	Board of Intermediate Education, A.P	96.3%	2018
Secondary	Board of Secondary Education, A.P	9.5	2016

PROJECTS

- **Car Sharing Website** June 2021
[Website](#) | [Github](#)
Team Project
– A website to create or plan shared journeys with fellow users. Users can share their journeys either on regular basis or one time journey.
– Key Technologies used: HTML, CSS, JavaScript, BootStrap, JQuery, PHP, MySQL, Google Map's API.
- **Online Notes App** April 2021
[Website](#) | [Github](#)
Team Project
– A note-taking webapp for keeping necessary information handy with instant sync with your account over any device. The notes written are instantly updated to the latest edit and uses secure login system.
– Key Technologies used: HTML, CSS, JavaScript, BootStrap, JQuery, PHP, MySQL.
- **Interview Prep Tracker** Dec 2020
[Website](#) | [Github](#)
Coding Club, IITG
– A website that provides good coding questions for practice and also company-wise interview experiences. People can share their experiences and suggest questions which are approved by Admin.
– Key Technologies used: Nodejs, MongoDB, JavaScript.

TECHNICAL SKILLS

- **Programming Languages:** C/C++, Python*
- **Web Technologies:** HTML, CSS, JavaScript, JQuery, PHP, Bootstrap4
- **Miscellaneous:** Google Map's API
- **Database management:** MySQL
- **Operating system:** Windows, Linux

* Elementary proficiency

KEY COURSES TAKEN

- | | |
|----------------------------------|---|
| • Data Structures and Algorithms | • Operating Systems |
| • Database Management Systems | • Computer Networking |
| • Software Engineering | • Probability Theory and Random Processes |
| • Discrete Mathematics | • Computer Architecture and Organization |

ACHIEVEMENTS

- **Joint Entrance Examination(JEE) Advanced 2018:** Secured All India Rank **471** among 1.55 lakh candidates appeared for the test.
- **Joint Entrance Examination(JEE) Mains 2018:** Secured All India Rank **188** among 1.25 million candidates appeared for the test.
- **KVPY 2017-18:** Obtained the **National research Fellowship Award** based on the Aptitude Test and Interview held during January-February, 2018.
- **Dr AS Rao awards council (ASRAC) 2015:** Secured State rank **24** among 5 lakh candidates appeared for the test.
- **Indian National Olympiad (INO) 2018:** Qualified to appear for both Physics Olympiad and Chemistry Olympiad examinations held during January 28, 2018.

EXTRACURRICULARS

- Secured **Silver** in Volley Ball competition held as part of Spardha 2019 - Inter Hostel Sports Competition, IIT Guwahati.
- Secured **Fourth** position in Volley Ball competition held as part of Spardha 2020 - Inter Hostel Sports Competition, IIT Guwahati.



Munindra Naik

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Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech	Indian Institute of Technology, Guwahati	7.35 (Current)	2018 - Present
Senior Secondary	CBSE board	93.2%	2018
Secondary	CBSE board	10.0	2016

Projects

- **Pathfinding Visualizer** <git.io/JJM73>
A web application based on **ReactJS** which visualizes graph based traversal algorithm on a grid with user specified source, destination and obstacles
- **Website Time Analyzer** <git.io/JuhRR>
A Google Chrome extension developed using **Javascript** which stores the info about website visited and visualizes the user in a structured format
- **Image Colorizer** <git.io/JuhrF>
Built a image colorizer which transforms a black and white image into colorful image using **Autoencoders** involving several **CNN** layers
- **Inter-IIT Tournament Management System** <git.io/JuhEK>
Course Group Project, CS346 Software Engineering Lab
An **Android** based **prototype** application designed to efficiently organize, manage and to inform about different events which occur during the Inter-IIT Tournament

Technical skills

- **Programming Languages :** C, C++, Python, Java, Haskell
 - **Web Technologies :** HTML, CSS, Javascript, Django*, ReactJS, NodeJs
 - **Database Management :** MySQL, Firebase, MongoDB
 - **Miscellaneous :** Android Programming , Shell Scripting, Latex, Git
 - **Operating System :** Windows, Ubuntu
 - **Libraries Used :** Python(Tensorflow, Sci-kit, Numpy), Java(Swing)
- * *Elementary proficiency*

Key courses taken

- | | |
|---|---|
| <ul style="list-style-type: none"> • Design and Analysis of Algorithms • Machine Learning • Deep Learning • Computer Networks | <ul style="list-style-type: none"> • Operating System • Data Structures + Lab • Software Engineering + Lab • Database Management System + Lab |
|---|---|

Achievements

- **NTSE 2016** : Selected among the top 1000 meritorious students in the national level exam conducted by Govt of India for granting scholarships
- **Codeforces** : Achieved a highest rating of 1509 on codeforces platform
(Codeforces handle : **munindra2132**)

Extracurriculars

- City representative, Ranchi, Technothlon 2019 (IIT Guwahati)
- Core Team Member, Hexacopter Project, 4i Labs 2019 (IIT Guwahati)



Nalabolu Sandeep

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech	Indian Institute of Technology, Guwahati	6.64	2018-Present
Senior Secondary	Board of Intermediate Education, AP	95.8%	2018
Secondary	Board of Secondary Education, AP	9.2	2016

PROJECTS

- **Car sharing Website** September 2021
GitHub | Website
Personal Project
– A website Developed using PHP, JavaScript, Bootstrap, MySQL and CSS to create or plan your journeys with fellow users.
– Key features include users being able to create a booking, delete booking, create an account, update their account.
- **Telegram Userbot** May 2020 - July 2020
GitHub
Personal Project
– A telegram bot developed using python which can be linked to User's telegram accounts.
– Key features of this bot are: Users can manage their groups and personal messages, download audio/video from YouTube, search and download images, upload or download files from Gdrive, etc.
- **Online Notes web-app** July 2021
GitHub | Website
Personal Project
– An online notes website where you can save and access your saved data anytime over any device by using your account on this website.
– Developed using PHP, JavaScript, Bootstrap, MySQL and CSS.
- **Min-cut Problem in Graph and Hypergraph** ongoing
Bachelor's Thesis Project, Guide: Dr. Sushanta Karmakar, Dept. of CSE, IIT Guwahati.
– To design an algorithm for Min-cut Problem in Graph and Hypergraph.

TECHNICAL SKILLS

- **Programming languages:** C, C++, Python
- **Web technologies:** HTML , CSS , PHP, JavaScript* , Bootstrap4*
- **Database management:** MySQL
- **Miscellaneous:** Git, LaTeX
- **Operating Systems:** Windows, Linux

* Elementary proficiency

KEY COURSES TAKEN

- | | |
|-------------------------------------|---|
| • Data Structures and Algorithms | • Operating Systems |
| • Design and Analysis of Algorithms | • Computer Networking |
| • Database Management Systems | • Probability Theory and Random Processes |
| • Software Engineering | • System Software Laboratory |

ACHIEVEMENTS

- **Joint Entrance Examination Advanced 2018:** Secured All India Rank **441** among 0.15 million candidates appeared for the test.
- **Joint Entrance Examination Mains 2018:** Secured All India Rank **366** in paper I among 1.3 million candidates appeared for paper I and All India Rank **102** in paper II among 0.12 million candidates appeared for paper II.
- **AP EAMCET :** Secured State Rank **315** among 0.23 million people who appeared for the test.
- **Aditya Birla Scholarships:** Shortlisted for the Aditya Birla Scholarships Programme during the Academic Year 2018-19.
- **KVPY 2016:** Secured All India Rank **496** in KVPY Aptitude Test and short listed in the interview for the VIJYOSHI CAMP -2017.

EXTRA-CURRICULARS

- **City Representative, Technothlon 2019:** Volunteered for conducting the preliminary round of Technothlon 2019 in the city Guntur, Andhra pradesh.



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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech.	Indian Institute of Technology, Guwahati	7.94 (Current)	2018 - Present
Senior Secondary	CBSE	88.4%	2018
Secondary	CBSE	10.0	2016

EXPERIENCE

- Oracle Corporation - SCM Fusion Cloud** Applications Development Intern May. 2021 - Jul. 2021 Hyderabad, India
 - Developed a JET Application using Visual Builder Cloud Service (VBCS) for Supply Chain Orchestration.
 - Used **VBCS data structures** like ADP for storing data & **REST API's** for receiving data and VBCS & Ojet components for UI.
 - Implemented several JS functions for efficient data handling resulting in **50% reduction** in response time of the application.
 - I was the **first in my team** to work on this & received a **Pre-Placement Offer** for outstanding work done during the internship.
- Student's Web Committee, IITG** Backend Developer Nov. 2019 - Feb. 2020 git.io/JJnOS
 - Developed an Anonymous counselling platform to connect **3000+** students with counsellors of IITG.
 - Used **Django** and **AJAX** for real time features including re-connection, multiple chat rooms, chat abort, queue management.
 - Used sessions to deactivate rooms and **improve platform efficiency**.

PROJECTS

- IITG Gymkhana Election Portal** Election Commission, IITG and SWC Dec. 2020 - Feb. 2021
 - Developed a Django based voting platform which was then used by **3500+** users from their homes across India to vote.
 - Worked on **multi stage encryption** to ensure secure voting and **computer vision** to ensure nobody can vote for anybody else.
 - Added real time statistics display while voting and used celery for real time showing of results while decryption of votes.
- Operating Systems-xv6** Dr. John Jose, Department of Computer Science, IITG Aug. 2020 - Nov. 2020 git.io/JE8dy
 - Implemented **system calls** and **user-level programs** to get info of processes and functioning of xv6-OS.
 - Implemented **hybrid scheduling algorithms** like SJF+Round Robin for the OS kernel and studied them using system calls.
 - Implemented lazy memory allocation, **virtual memory mapping**: page allocation and swapping mechanisms.
- Covid Helper** Student's Web Committee, IITG Mar. 2020 - Apr. 2020 git.io/JJnOH
 - Developed a Django-based platform that would serve as a bridge between consumers, suppliers, and government in crises.
 - Used **GeoDjango** tools of django and **postgres** for resolving location based queries and **AJAX** for real time sync with data and added features such as high priority requests, nearby located requests, admin privileges and control etc.
- Other Notable Projects:**
 - Multilingual Sentiment Analysis:** Working on sentiment analysis of multilingual texts as my **Bachelor Theses Project**.
 - Deal Finder:** Prototyped a deal finder application following the full **Software Development Life Cycle**. git.io/JE244
 - TCP congestion control algorithms analysis:** Simulated FTP traffic using ns3 between a two-node topology with several TCP congestion control algorithms and compared their behaviour. git.io/JE28q

ACHIEVEMENTS

- Coding Competitions:**
 - Google Hashcode 2021:** Secured **AIR 74** and **Batch Rank 1** in IITG (Team - HarharMahadev).
 - Codeforces:** Achieved title **expert** with max rating of 1661 (handle - nik_heda).
 - Codechef:** Secured **Global Rank 313** in July lunchtime 2019 (Rankings).
 - Microsoft Codefundo 2019:** Cleared phase 2 of the competition after prototyping a block-chain based election mechanism.
- KVPY 2017-18:** Obtained the National Research Fellowship Scholarship, securing a position in **top 1%**(AIR 771).
- JEE 2018, Advanced:** Secured All India Rank **510** among 0.15 million candidates.
- JEE 2018, Mains:** Achieved **99.81** percentile ranking among 1.25 million candidates from all over India.

TECHNICAL SKILLS

- Programming:** C, C++, JavaScript, Python*
- Dev Technologies:** Django, HTML, CSS, Node.js*
- Database Management:** MySQL, Google Firebase*, MongoDB*
- Miscellaneous:** Linux, Git, OpenCV*, Tensorflow*

* Elementary proficiency

KEY COURSES TAKEN

- Computer Science:** Data Structures and Algorithms, Database Management Systems, Software Engineering, Deep Learning, Natural Language Processing, Operating Systems, Computer Networks.
- Mathematics:** Probability & Random Processes, Discrete Mathematics, Linear Algebra.

POSITIONS OF RESPONSIBILITY AND EXTRACURRICULARS

- Treasurer and SAIL Representative**, Computer Science and Engineering Association, IIT Guwahati.
- City Representative and Question paper team member**, Technothlon, Techniche (Technical fest of IITG).
- Anchorenza and RadioG(Club)**, Published podcasts, content videos and anchored various events in Alcheringa.
- Republic Day Parade**, Represented Brahmaputra hostel in Republic day parade 2019 and secured 3rd rank.

NIYATI CHAUDHARY

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IIT Guwahati

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EXPERIENCE

Google India - SWE Intern

Silicon Explorations, Devices and Services Team

May 2021 - July 2021

Bangalore, India

- Partitioning large machine learning models on multi-chip system with an aim to maximize the throughput.
- Developed various Biased Random Key Genetic Algorithm (BRKGA-met-heuristic framework) based techniques for the NP-complete graph partitioning problem given an inaccurate static cost model.
- Tuned BRKGA based hyper-parameters using AI platform Vizier (black-box optimization) and extensively ran inferences on hardware.
- Produced better sample and time efficiency than the standard search based techniques.
- Received Pre-Placement Offer (PPO) for Software Engineer role.

Google India - STEP Intern

Seekh, Learning and Education Team

May 2020 - July 2020

Bangalore, India

- Conceptualized and developed an Android application in Java from scratch as an extension to the Read Along app.
- Processed user drawn input using self curated heuristics, provide relevant feedback via Text-To-Speech utility and identify next task based on user's previous sessions using Shared Preferences.
- Performed extensive testing using Junit and Espresso framework.
- Received Pre-Internship Offer (PIO) for SWE Internship.

PROJECTS

Scheduling Strategies for Multi-Cloud Edge Systems

BTech Project, Prof. Aryabartta Sahu, IIT Guwahati

July 2021 – Present

- Devising cost-efficient, reliability and dependency aware scheduling algorithms for multi cloud systems with edge-cloud cooperation.

Procurement System for GAIL

Smart India Hackathon'20 - Grand Finalists

Jun 2020 – Aug 2020

<https://git.io/JJZ09>

- Blockchain powered web application for GAIL which allows procurement from vendors, shipment and acceptance. Uses smart contracts for secured financial transactions and automatic bid evaluation.

Codeforces Companion

Personal Project

Dec 2019

<https://git.io/JeFYx>

- Developed an Android application that suggest problems that the users haven't done and their friends have by fetching data from the Codeforces API.

Other Projects

- Two pass assembler and linker loader for SIC/XE machine.
- Base64 encoding communication protocol using socket programming.
- Placement Portal android application for easy communication.
- Social Networking Site with live messaging and posts feature.

EDUCATION

B.Tech. in Computer Science

Indian Institute of Technology Guwahati

CGPA: 9.03

July 2018 - May 2022

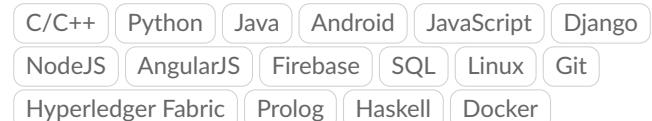
Senior Secondary - CBSE

Delhi Public School Dwarka

Percentage: 98.2

April 2016 - May 2018

TECHNICAL SKILLS



KEY COURSES

- Data Structures
- Algorithms
- Compilers
- Software Engg.
- Operating Systems
- Databases
- Computer Networks
- Deep Learning

ACHIEVEMENTS

Google CodeJam to I/O for Women 2021

Selected among the top 150 competitors worldwide.

Competitive Programming

Secured rank 411 in online round of ACM ICPC 2019.
Rating - 1938 on CodeChef and 1868 on Codeforces.

Uber She++ 2020

Selected in top 50 in India among female candidates.

Smart India Hackathon 2020 Grand Finalist

Shortlisted among 5 teams nationally in Blockchain.

Joint Entrance Examination Advanced 2018

Secured AIR-1002 among 0.15 million candidates.

Kishore Vaigyanik Protsahan Yojana 2016-17

Awarded National Research Fellowship.

Regional Mathematical Olympiad 2016

Selected in top 30 in Delhi State.

National Talent Search Examination 2015-16

Awarded NTSE Scholarship.

EXTRACURRICULARS

- Technical Head, Computer Science Engineering Association, IIT Guwahati. 2019-21
- Core Team Member, Technothlon, Techniche (Annual Techno-Management fest of IIT Guwahati) 2018-19



Param Aryan Singh

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech.	Indian Institute of Technology, Guwahati	8.19 (Current)	2018-Present
Senior Secondary	Central Board of Secondary Education	93.8%	2018
Secondary	Central Board of Secondary Education	9.6	2016

EXPERIENCE

- AppDynamics, Inc. (Cisco Systems)** Jun. 2021 - Jul. 2021
 Software Engineer Intern Bangalore, India
 - Worked on a **real-time** log based metric pre-aggregation service using **Kafka Streams** for a highly scalable application.
 - Developed a Flask based web interface which allows customers to query and visualize the metrics produced by the service from the logs. Technologies used: Java, Kafka, Avro, Flask, PostgreSQL.
- Planerr** Dec. 2020 - Mar. 2021
 Full Stack Developer Intern Bangalore, India
 - Worked on a Mobile Application in Flutter, implemented several features for the app using **BLoC architecture**.
 - Developed various API's to fetch data from the server's MongoDB database using Spring Framework in Java.
- Techniche (Techno - Management Fest of IIT Guwahati)** Oct. 2019 - Sept. 2020
 Web Operations Guwahati, India
 - Responsible for maintaining the website **techniche.org** with more than **2K** active users during the fest and hitting a total of around **450K** views. Developed various django-based portals for registration of events.
 - Developed an android application **Incrito** in React Native for managing meeting and events of Techniche.

PROJECTS

- Anonymous Counselling Platform** Nov. 2019 - Feb. 2020
 Student's Web Committee, IIT Guwahati git.io/JJVCC
 - Developed a Django based counselling platform where students can chat with counsellors anonymously.
 - Deactivated idle chat rooms using **sessions** when the user is inactive to increase the platform efficiency.
- Flyzy App** Apr. 2020 - May 2020
 Flyzy, An Aviation-Tech Startup bit.ly/33CjmUj
 - Worked as part of the server-side development team. Successfully created and integrated **REST APIs** in Python using Websockets. Formulated the Firebase database structure to reduce data redundancy.
- Browsing Bad** Apr. 2019 - Aug. 2019
 Technothlon, IIT Guwahati git.io/JJVCq
 - Created a web portal which was used to host a competitive event among top 50 teams as a part of **Technothlon**.
 - Hosted events using Node.js which consisted of 20 brain storming interactive puzzles/games with live scores.

ACHIEVEMENTS

- Codeforces:** Achieved highest rating of **1919 (Candidate Master)**. Handle: param_aryan
- CodeChef:** Achieved highest rating of **2071 (5 Star Coder)**. Handle: param_aryan
- ICPC Amritapuri:** Secured **All India Rank 173** (Preliminary round) and **All India Rank 211** (Regional round). 2021
- Google Hash Code:** Secured **All India Rank 74** and **Batch Rank 1** in IIT Guwahati. 2021
- Google Kick Start:** Secured **Global Rank 347** out of 20,000 participants in Round A. 2021
- Google Code Jam:** Qualified for Round 2 by getting placed in **Top 1500** out of 30,000 participants globally. 2020
- JEE Advanced:** Secured **All India Rank 523** amongst 0.15 million candidates. 2018
- JEE Mains:** Secured **All India Rank 1207** amongst 1.2 million candidates. 2018

TECHNICAL SKILLS

- Programming Languages:** C, C++, Python*, Java*
 - Web & App Technologies:** Flutter, React Native, HTML, CSS, JavaScript, Django*, Node.js*, Kotlin*
 - Data Management:** MySQL, Google Firebase, Kafka Streams, MongoDB*
 - Miscellaneous:** Git, Bash*, Latex*, Matlab*
- * Elementary proficiency*

KEY COURSES TAKEN

- Computer Science:** Data Structures and Algorithms, Database Management Systems, Computer Architecture and Organization, Computer Networks, Operating Systems, Formal Languages Automata Theory and Computation.
- Mathematics:** Probability Theory and Random Processes, Game Theory and Economics, Discrete Mathematics, Number Theory and Algebra, Linear Algebra.

POSITIONS OF RESPONSIBILITY & EXTRACURRICULARS

- Events Head and Executive,** Computer Science and Engineering Association, IIT Guwahati. May 2020 - Present
- Core Team, Web Operations,** Techniche, IIT Guwahati. Oct. 2019 - Sept. 2020
- Organizer and City Representative,** Technothlon, IIT Guwahati. Oct. 2018 - Aug. 2019
- Theatre and Drama,** Active member of Xpressions (Dramatics Society of IIT Guwahati).



Parth Bakare

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B. Tech. Major	Indian Institute of Technology Guwahati	8.78	2018-Present
Senior Secondary	CBSE	96.0%	2018
Secondary	CBSE	10.0	2016

EXPERIENCE

- Nutanix - Disaster Recovery and Backup team** Jun. 2021 - Jul. 2021
Intern, Member of Technical Staff Bangalore, India
 - Built tools using C++ to publish statistics for debugging storage services that are offered by the DR and Backup team. These tools disclose errors that would otherwise be hidden from the client and thus hard to resolve.
 - Studied existing files and data structures to calculate valuable metrics that highlight necessary details and report the underlying errors (causing undesired behaviour) to the client.

PROJECTS

- TCP congestion control algorithms analysis** Nov. 2020
Course project, CS342 - Computer Networks lab. github.com/TCP
 - Simulated FTP traffic between a two-node topology with various TCP congestion control algorithms (New Reno, Hybla, Westwood, Scalable, Vegas) and compared their behaviour.
 - Used ns-3 to simulate the network and gather data which was analysed qualitatively, quantitatively and graphically.
- Graph visualiser** Jun. 2020 - Jul. 2020
Group project github.com/GraphiX
 - Developed an interactive website using ReactJS library to visualise graph algorithms on custom graphs.
 - Supports adding and moving vertices, adding edges and visualisation of BFS, DFS and MST algorithms.
- Operating System - xv6** Sept. 2020 - Nov. 2020
Course project, CS344 - Operating Systems lab. github.com/xv6
 - Implemented a SJF and Round Robin based hybrid scheduling algorithm and tested it for CPU and I/O bound tasks.
 - Incorporated lazy memory allocation and dynamic paging using LRU replacement mechanism for active processes.
- Other notable projects**
 - Pokedex : Built an interactive website which lists various Pokemons and shows attributes of the selected Pokemon.
 - Note Taking Application : Designed a medium fidelity prototype following the Software Development Life Cycle.

ACHIEVEMENTS

- ICPC Amritapuri:** Secured All India Rank 167 (preliminary round) and All India Rank 211 (regional round) 2021
- Google Kick Start:** Secured Global Rank 256 in Round E 2021
- Google Hash Code:** Secured Global Rank 466 and All India Rank 74 (team: Har Har Mahadev) 2021
- Codeforces:** Achieved title Candidate Master, maximum rating 1969 (handle: **parth_bakare**) 2020
- Inter-IIT Tech Meet:** Gold medalist in Ashoka's Tech for Change Challenge 2019
- JEE:** Secured All India Rank 194 (JEE Mains) and All India Rank 544 (JEE Advanced) 2018
- Physics Olympiad:** Cleared NSEP and qualified for INPhO by securing a National Top 1% rank 2017
- Chemistry Olympiad:** Cleared NSEC and qualified for INChO by securing a National Top 1% rank 2017
- Astronomy Olympiad:** Cleared NSEA and qualified for INAO by securing a Top 23 rank in Maharashtra 2017
- NTSE:** Obtained the National Talent Scholarship by securing a National rank under 1000 2016

TECHNICAL SKILLS

- Programming:** C++, C, Python, Java*, C#* • **Web technologies:** HTML, CSS, ReactJS, JavaScript*
- Miscellaneous:** MySQL, Git, Latex, Shell, Vim, Octave*, Unity* * Elementary proficiency

KEY COURSES TAKEN

- Computer Science:** Data Structures and Algorithms, Computer Organization and Architecture, Operating Systems, Database Management System, Computer Networks, Machine Learning, Formal Languages Automata and Computation
- Mathematics:** Probability & Random Processes, Real Analysis, Linear Algebra, Number Theory and Algebra, Optimization, Discrete Maths, Vector Calculus

POSITIONS OF RESPONSIBILITY & EXTRACURRICULARS

- 35th Inter-IIT Aquatics Meet, 2019:** Represented IIT Guwahati in the prestigious Inter-IIT Aquatics Meet.
- Events - Core team (2021) and Executive (2020), Alcheringa:** Events team of IIT Guwahati's annual sociocultural festival. Led a team of 12 people in conducting 16 Literary and Art events that saw more than 1000 participants.
- Manager, Udgam 2020:** Core team of IIT Guwahati's annual E-summit. Organised the inaugural edition of Product Management Expedition, the first of its kind competition amongst all IITs, handling over 300 teams.



Preeti Kumari Kotiya

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Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech.	IIT Guwahati	6.08 (Current)	2018 - Present
Senior Secondary	CBSE Board	83.20%	2018
Secondary	CBSE Board	10	2016

Experience

- Microsoft Mars Colonization Program : Engage 2020** June - July 2020
<https://git.io/JujW4>
Under Mentorship of Harsh Raj Singh Thakur , Senior Software Engineering Manager, Microsoft
 - Implemented Minimax Algorithm with Alpha - Beta Pruning in Tic Tac Toe
 - Added support for different playing modes - Human to Human, Human to Computer (including difficulty levels)

Projects

- Text Search Engine** Ongoing
Personal Project
 - Built a local search engine in python which supports text queries
 - Implemented tf-idf score and cosine similarity for ranking
- VR Human Digestive System** Jan - April 2021
<https://git.io/JuFNJ>
Dr. Samit Bhattacharya, Associate Professor, CSE Dept., IIT Guwahati
 - Worked on prototype design of interactive VR Human Digestive System application, made SRS document listing out the requirements for software system to be developed
 - Created a Data Flow Diagram(DFD) and Entity Relationship(ER) Diagram
- Flutter Chatting App** December 2020
<https://git.io/JuFiY>
Personal Project
 - Built a chat app with an universal feed for all the registered users where they can share text messages accessible and notified to everyone
 - Built the application with Android Studio and used Google Firebase as DBMS
- Blog Website** December 2019
<https://git.io/JuFyV>
Personal Project
 - Developed web application to post blogs by leveraging Django framework for personalised experiences and opinions with added CRUD functionalities

Technical Skills

- Programming Languages:** C, C++, Python, Java*
- Web Technologies:** HTML, CSS, Django*, Bootstrap*, Flutter*, Dart*
- Database management:** MySQL, Firebase*
- Operating Systems:** Windows, Linux
- Miscellaneous:** Android Studio*

* Elementary Proficiency

Key Courses Taken

- | | |
|---|--|
| • Data Structures and Algorithms (Theory and Lab) | • Software Engineering (Theory and Lab) |
| • Design and Analysis of Algorithms | • Database Management Systems (Theory and Lab) |
| • Operating Systems (Theory and Lab) | • Computer Networks (Theory and Lab) |
| • Computer Organisation and Architecture | • Discrete Mathematics |

Achievements

- Joint Entrance Examination, 2018 :** Secured 1.4 percentile among 1.25 million candidates appearing for the test
- Codess (Microsoft) 2020 :** Selected as mentee in Codess Microsoft Mentorship Program 2020



Rahul Choudhary

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Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech.	IIT Guwahati	7.30 (Current)	2018 - Present
Senior Secondary	RBSE	87.60%	2018
Secondary	CBSE	10.0	2016

Experience

- **Envestnet Yodlee** May 2021 - July 2021
Software Engineer Intern
Bangalore, India
 - Worked on the project for Data Quality where customer required full account number, routing number and account holder name for verification purposes.
 - Designed and implemented a diagnostic utility which identifies the missing values present in a user's data object and also analyses the root cause of the field being missing.
 - Developed the utility in the Springboot framework. Integrated multithreading to efficiently execute a large number of API calls made to an in house RESTful endpoint that returns data objects corresponding to each user.
 - The utility would automate a process that was previously completely manual. The adoption of the utility and integration with broader project would save the firm **8-10 man hours**.

Projects

- **Vaccination Portal** Jun 2021 - July 2021
Students' Web Committee, IIT Guwahati
[Visit Website](#): bit.ly/393Cwny
 - Developed a Django based interface to administer a campus-wide **Covid-19 vaccination programme**.
 - Residents on campus can register and reserve slots, and a **mailing system** has been established to confirm slot reservations. Implemented **Google and Outlook authentication** using django-social-auth.
 - Website has witnessed a total of **1532 users** and has **618,000 hits** so far.
- **IITG EduPortal** Mar 2020 - Jun 2020
Coding Club, IIT Guwahati
[Github](#): git.io/JJ25x
 - Developed a Django based **E-learning and academic management** website for students of IIT Guwahati. Students can take a course or create their own courses, upload/download video lectures and handouts.
 - Other features include notifications and requesting a book from another user. Implemented chat rooms for healthy discussions. Used **Google Firebase** for data management.
- **Labyrinth Generation Visualizer** Sep 2021
Personal Project
[Live-Server](#): bit.ly/3nrTYKV
 - Developed an application using JavaScript and p5.js library which generates a random solvable labyrinth.
 - Used **randomized Depth-First-Search** and **recursive Backtracking** to generate a playable labyrinth. The programme allows the user to interact with it and solve the maze.
- **E-commerce Cart** Feb 2021 - Apr 2021
Personal Project
[Github](#): git.io/JuAaP
 - Developed an E-commerce utility using **NodeJS**. Users can buy/sell products, add items to cart, pays online, and views invoices. To sell a product, user provides its title, image, price, and brief description.
 - The app provides **sessions, authentication**, and server-side validations for users. It sends a mail to its user to confirm signup or to reset password. Invoices for users' orders are generated by **PDFKit library**. Used **Stripe** for online payment and Mongoose ODM to access **MongoDB** which is used for data management.

Achievements

- **Candidate Master on Codeforces**: Achieved maximum rating of **1996** on the platform. [Codeforces](#): 00100
 - **Codeforces Round 712 (Div. 2)**: Secured **Global Rank 48** among 11315 Contestants.
 - **Codeforces Round 738 (Div. 2)**: Secured **Global Rank 57** among 13275 Contestants.
- **Guardian (top 5%) Badge holder on Leetcode**: Achieved rating of **2186** on the platform. [Leetcode](#): rahul0077
 - **Weekly Contest 256**: Secured **Global Rank 116** among 12937 Contestants.
 - **Biweekly Contest 56**: Secured **Global Rank 126** among 10896 Contestants.
- **Google Coding Competitions**:
 - **Google Kickstart 2021 Round E**: Secured **Global Rank 557** among 6937 participants.
 - **Google Kickstart 2021 Round D**: Secured **Global Rank 780** among 10933 participants.
- **Flipkart Grid 2.0**: Secured **AIR 316** among 6041 participants in Level 1 of Robotics stream.
- **Facebook Hacker Cup 2021**: Qualified for **Round 2**. (*Further rounds to be conducted*)
- **JEE Advanced 2018**: Secured **AIR 1799** among around 0.17 million candidates appearing for the test.

Technical Skills

- **Programming Languages:** C++, C, Python, JavaScript, Java*
- **Web Technologies:** HTML, CSS, Django, Bootstrap, Node.js*
- **Database management:** MongoDB, MySQL, Google Firebase*
- **Miscellaneous:** Web scraping, Git, L^AT_EX
- **Operating Systems:** Windows, Linux*

* Elementary Proficiency

Key courses taken

- Data Structures and Algorithms (Theory+Lab)
- Database Management Systems (Theory+Lab)
- Software Engineering (Theory+Lab)
- System Software Laboratory
- Operating Systems (Theory+Lab)
- Computer Networks (Theory+Lab)
- Computer Organization and Architecture
- Probability Theory and Random Processes

Extracurriculars

- **PayPer Need:** Successfully ran a **Startup** based on selling recycled scrap paper notebooks.
- **City Representative, Technothlon, 2019:** Coordinated and conducted Technothlon (All India high school championship by Techniche) in Jaipur. Through presentations at several schools, I was able to motivate and guide a huge number of students.
- **Organizer, Techniche, 2019:** Contributed in organizing Technical fest of IIT Guwahati while being a part of marketing team.
- **Inter IIT Cultural Meet 2018:** Secured **5th** position in Group Dance among 23 IITs that participated.
- **Spardha 2019:** Secured **3rd** position in Basketball. Also participated in 400m hurdles and Kho-Kho.
- **Manthan 2019:** Secured **1st** position in Group Dance, Street play and Short Film.
- **Hackathons:** Participated in Google CodeJam, Facebook Hacker Cup and various contests of competitive platforms.



Rahul Kumar

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech	Indian Institute of Technology, Guwahati	7.62 (Current)	2018-Present
Senior Secondary	CBSE Board	89.0%	2018
Secondary	CBSE Board	10.0	2016

EXPERIENCE

• CITRIX

Software Engineer Intern | CWA-team

May 2021 - Jul 2021

Remote

- The basic task of the intern is to migrate the build from **TeamCity to Jenkins**.
- Worked on one of the projects known as CWA-GoogleAnalytics. This repo consist of code used by all CWA platforms for instrumentation purpose for analytics.
- We have to provide **JenkinsFile** and make a green build ensuring the code was built successfully on the Jenkins Instance.

PROJECTS

• Codeforces Crawlers

Self project

Mar 2020 - Apr 2020

[Github](#)

- Developed a web application by using the **Django**-framework for getting user information and recent problems solved on the codeforces platform given user handle.
- User data for analysis is extracted through web-scraping by parsing HTML using **Beautiful-Soup** and **API** calls.

• Expense tracker

Self project

Sept. 2020 - Oct. 2020

[Github](#)

- Developed a **chrome extension** that helps users to track their expenses and get notified when the expense is over the limit set by user in option menu.
- Built the option to add expenses form any web page through context menu and Shows the real time expenses in the extension icon
- Uses Javascript and Jquery along with HTML

• Weather App

Self project

Jun 2020 - Jul 2020

[Github](#)

- Built a **Django**-based web application to see the weather of multiple city in world in real time.
- Used **Python Requests** to call the Open Weather Map API and **web-scraping** to extract the data.

TECHNICAL SKILLS

- **Programming Languages:** C/C++, Java*
- **Web Technologies:** Django, HTML, Css, Bootstrap, JavaScript
- **Database Management:** MySQL
- **Miscellaneous:** Git, Android Studio*, L^AT_EX
- **Operating System:** Windows, Linux(Basic shell utilities)

* Elementary proficiency

KEY COURSES TAKEN

- Data Structures and Algorithms (Theory + Lab)
- Database Management Systems (Theory + Lab)
- Software Engineering (Theory + Lab)
- Operating System (Theory + Lab)
- Probability Theory and Random Processes
- Computer Networks

ACHIEVEMENTS

- **Codeforces Round 661:** Secured 1307th rank among 12,000+ candidates participated in the contest.
- **Codechef:** Achieved a maximum rating of **1699**.
- **JEE Advanced 2018:** Secured 99.2 percentile out of total 0.23 million candidates qualified for the examination.

EXTRACURRICULARS

- **Spirit 2019, IIT Guwahati,** Badminton sports organizer in Spirit(Annual North-East India Sporting Event) 2019.
- **Hostel Participation,** Represented Kameng hostel in march-past on Independence Day 2018 & Republic Day 2019.



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Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech	Indian Institute of Technology, Guwahati	6.63 (Current)	2018 - Present
Senior secondary	CBSE board	83.0%	2018
Secondary	CBSE board	10.0	2016

Projects

- **Remind Me App** *Dec 2020 - Feb 2020*
git.io/Ju5Wm
Coding Club, IITG
 - An app development project developed using Flutter with Firebase for storage.
 - Users will be able to maintain a to-do list and app sends them notifications regarding those works at the time as a reminder.
- **Chrome Extension** *Dec 2020*
git.io/Ju5CN
Coding Club, IITG
 - A Chrome extension developed using Javascript, HTML and CSS to help users manage and analyze their productivity.
 - It offers a suite of time management tools that track your work and break times, reminding you when it's time to get up and move around or get back to work.
- **The Snake which Bites** *July 2021*
git.io/Ju51c
Personal Project
 - Coded a snake game with the help of Python and Pygame.
 - The old nokia phones used to have the snake game. As the snake keep moving around devouring fruits its length increases.
- **Responsive Web Design** *Oct 2019*
Personal Project
Developed pages using plain HTML and CSS such as :
 - Product Landing Page *codepen.io/Rakshit_Pathade/pen/Jjjv0N*
 - Survey Form *codepen.io/Rakshit_Pathade/pen/MWWgRdv*
 - Personal Portfolio Web page *codepen.io/Rakshit_Pathade/pen/oNNXeow*

Technical skills

- **Programming languages :** C++, C, Dart, Python*
- **Web technologies :** HTML, CSS, Javascript*
- **Database management :** mySQL, Firebase*
- **Operating system :** Windows, Linux

* Elementary proficiency

Key courses taken

- Data Structures and Algorithms
- Discrete Mathematics
- Networks
- Human Resource Management*
- Database Management Systems (theory & lab)
- Operating Systems (theory & lab)
- Probability Theory and Random Processes
- Digital design

* To be completed in Nov 2021

Achievements

- **JEE Advanced 2018 :** Secured All India Rank 8096 among 0.15 million candidates appearing for the test.



Rathod Sainath

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech.	Indian Institute of Technology Guwahati	6.38 (Current)	2018 - Present
Senior Secondary	Board of Intermediate Education, Telangana	86.9%	2018
Secondary	CBSE	8.6	2016

EXPERIENCE

- Front-End developer at ClountNews

August 2020

Saqib Malik, Founder, ClountNews United Kingdom

- Developed a native application to display nearby Temples, Mosques, Gurudwara's & Churches in London city, technologies used are ionic as framework and HTML, CSS, Bootstrap & JavaScript for front-end development.
- Key Features include registration via Phone number verification, Displaying nearby Temples, Mosques, Gurudwara's & Churches with the help of Google Maps

- Fullstack developer at Sarah Enterprises

May 2021

Shaik Zakhir, CEO, Sarah Enterprises, ECIL, Hyderabad

<http://sarahentp.com/>

- Developed a static website for Sarah Enterprises by using HTML, CSS, Bootstrap, JavaScript.
- This website deals with spare parts of mining Equipments and constructions

PROJECTS

- Code Crawler

July 2020

Group Project

<git.io/JJ6cp>

- Built a website to display user's contest details in the form of various pie charts, graphs and heat maps.
- User's data is abstracted using Codeforces API. Key features of this website include contest calendar and day wise count of user submissions.

- Job Portal

May 2021

Group Project

<git.io/JucOI>

- Developed a Django based application that acts as a channel for recruiters and applicants, where a recruiter can post a job and an applicant can apply for a job.
- Key Features include registration followed by email verification, adding multiple job profiles for recruiters, job search for applicants, track status of application and editable profile.

- Sign Language Recognition

April 2021

Group Project

<git.io/JuQNR>

- A deep learning model to identify the symbolic expression shown by using hand gestures through images so that the communication gap between a normal and hearing-impaired can be easily bridged.

TECHNICAL SKILLS

- Programming Languages: C, C++, Python*

- Database: MySQL

- Web Technologies: HTML, CSS, JavaScript, Django

- Miscellaneous: Ionic

* Elementary Proficiency

KEY COURSES TAKEN

- Algorithms and Data Structures

- Database Management Systems

- Operating Systems

- Computer Networks

- Design and Analysis of Algorithms

- Software Engineering

POSITIONS OF RESPONSIBILITY

- Sports Secretary

2019-2021

Dihing hostel, IIT Guwahati

- Elected by 300 member student body to be the Sports Secretary of Dihing Hostel.
- Supervised various sports activities of hostel. Spearheaded the Hostel team in the Inter Hostel Sports competition.

ACHIEVEMENTS

- UPSC (2019) Ministry of Defence,: Qualified till final round of Indian Navy Officer Interview (SSB), Indian Naval Service Vishakapatnam under Btech entry.

Surpassed multiple Physical fitness, Mental stability, Psychological & Decision making tests to qualify to final round.

EXTRA CURRICULARS

- Inter IIT Sports meet, 2019: Member of IITG contingent, Football team held at IIT Kharagpur

- Manthan: Represented hostel in Group Dance in Inter Hostel Cultural Meet, 2019.

- Spardha: Represented hostel in Football & Athletics in Inter Hostel Sports Meet, 2020

- Spirit: Participated in Football event in Annual Sports Fest of IITG, 2019 - 2020.

- Technothlon: Conducted preliminary round successfully in Hyderabad, Telangana.



Satyendra Dhaka

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[LinkedIn:](https://www.linkedin.com/in/satyendradhaka) linkedin.com/in/satyendradhaka

Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech.	IIT Guwahati	6.30 (Current)	2018 - Present
Senior Secondary	RBSE	78.80%	2017
Secondary	CBSE	9.6	2015

Experience

- Students' Web Committee, IIT Guwahati

Dec 2020 - Feb 2021

[Website](#) | [GitHub](#)

- Developed an **Online Voting Platform** to conduct smooth and secure **Students' Gymkhana Elections 2021**.
- Implemented **Image & location capture**, and **Encryption and Decryption scripts** to secure voter data.
- Deployed and stress-tested the website which witnessed a total of **4.6k users** and **718k hits** during election.

Projects

- Assest Discovery tool

July 2021

Flipkart Grid 3.0, Information Security

[GitHub](#)

- Wrote **Python** scripts that scan the **local and remote networks** using **arp-scan** and **Nmap**.
- CSV file generated has details of the type of systems running, and their different details like thier OS, domain.

- Vaccination Portal

July 2021

Students' Web Committee, IIT Guwahati

[Website](#) | [GitHub](#)

- Developed a **Django** based portal to manage **ongoing vaccination drive** in IIT Guwahati Campus.
- Designed a system for campus residents to register, book slots, and receive confirmation mails with booking details.
- Implemented **Google and Azure authentication** and maintained the website's production, having **618k hits**.

- Trip Advisory and Review Web Application

Nov 2019 - Jan 2020

Full Stack Capstone Project

[GitHub](#)

- Developed a **Full Stack Application** that enables the users to post various campgrounds, add ratings, etc.
- Built utilizing REST architecture and MongoDB Atlas, a cloud-based NoSQL database.
- The app performs CRUD operations for users, the campground and the comments.

Positions of Responsibility

- WebMaster, Students' Web Committee, IIT Guwahati

Mar 2021 - current

- Spearheaded an elite **3-tier team** consisting of 22 senior developers and 65 junior developers.
- Deployed and maintain websites and API developed by different teams of students' web committee.
- Maintain the **SWC servers** which witness monthly average of **150,000 hits**.

- Server Head, Alcheringa'21, IIT Guwahati

Jan 2021 - Mar 2021

- Lead a team of 20+ members and tested platforms to conduct a fest with more than 1.5 lakh views.
- Handled communications with Computer and communication center to streamline conduction of all events.

Technical Skills

- Programming Languages: C++, Python, JavaScript
- Web Technologies: Django, NodeJS, Bootstrap*
- Database Management: MongoDB, MySQL, PostgreSQL
- Network Tools: Nmap, Wireshark, Arp-scan
- Operating Systems: Windows, Linux
- Miscellaneous: Git, Burp Suite, LaTeX*, Selenium*

* Elementary Proficiency

Key courses taken

- | | | |
|--------------------------------|----------------------------------|-----------------------------------|
| • Data Structures & Algorithms | • Database Management (with lab) | • Software Engineering (with lab) |
| • Operating Systems (with lab) | • Computer Networks (with lab) | • System Software Laboratory |

Achievements

- TryHackMe

[Tryhackme](#) | powershot

- Currently a **[0X9][OMNI]** and **Globally ranked** among **top 1%** in 631k users.

- HackTheBox

[Hackthebox](#) | powershot

- Currently ranked as **Hacker** and **Globally ranked 784** among 550k users.

- Flipkart Grid 3.0: Secured AIR under 50 among 6887 participants in Level 1 of Information Security stream.

Extracurriculars

- Aeromodelling Club: Member of core team of the club for year 2020-2021.

- Hackathons: Participated in Facebook Hacker Cup and various contests of competitive platforms.



Saurabh Baranwal

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Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. Major	Indian Institute of Technology Guwahati	8.56	2018-Present
Senior Secondary	CBSE	97.8%	2018
Secondary	CBSE	10.0	2016

Experience

- **Morgan Stanley - OTC Settlements Team** *May 2021 - Jul. 2021*
Mumbai, India
 - Developed a user training Step by Step **guided tour**, using wrapper library **Angular Shepherd**, for an application that dealt with netting OTC trade cash flows into desirable set of payments, thereby reducing transactional costs.
 - Performed extensive testing of Angular application, with **1 lakh** userbase, using **Jasmine, Karma** and **Protractor**.
 - Received a **Full Time offer** based on outstanding performance during 2 months of internship.
- **Samsung R&D Centre - 5G Networking Team** *May 2020 - Jul. 2020*
Bangalore, India
 - Developed a **Traffic Classifier** that classifies TCP/UDP applications based on several **Quality of Service (QoS)** parameters like connection duration and data transfer.
 - Engineered modules for storing and monitoring connection behaviour of over **40+** applications, using **thread** and **socket programming** in C++.
 - Implemented a **prediction module**, that achieved an efficiency of **50%** for 40+ applications, by predicting nature of applications and analysing connection history through a devised mathematical algorithm.
- **Shibaura Institute of Technology, Japan** *Mar 2021 - Apr 2021*
Tokyo, Japan
 - Worked on research themes related to **graph structures** associated with L-R Parsing and syntax completion techniques.
 - Devised an algorithm to avoid circularity and infinite computations in parse trees of attribute grammar.

Projects

- **Operating System - xv6** *Aug 2020 - Nov 2020*
git.io/JUlpJ
 - Prof. John Jose, CSE Department, IIT Guwahati
 - Implemented a SJF and Round Robin based **hybrid scheduling** algorithm and tested it for CPU and I/O bound tasks.
 - Incorporated lazy memory allocation and dynamic paging using LRU replacement mechanism for active processes.
- **IITG No Dues Portal** *Jan 2020 - Feb 2020*
git.io/JJ69q
 - Students' Web Committee, IIT Guwahati
 - Developed a **Django** based web portal, catering to over **4000+** IITG residents, to ease the process of physical due clearance, course registration and maintenance of institutional database.
- **Codeforces Crawler** *April 2020 - July 2020*
git.io/JJ69n
 - Coding Club, IIT Guwahati
 - Developed a web application by **web scraping** through Codeforces API to create visual representation of statistics of user, detect plagiarism using MOSS and compare statistics of upto 4 users.

Achievements

- **Samsung Parichay Program 2020:** Selected amongst **top 20 candidates all over India** and **Institute Rank 1** in coding test for Samsung's prestigious sophomore year Research Internship Program.
- **ICPC Amritapuri 2021:** Achieved **National Rank 657** out of 4392 teams in ICPC Preliminary Round.
- **Competitive Programming:** Rated **6 stars** (**top 2.37 %** of users) in Problem Solving, Hackerrank (*saub12*).
- **IIT JEE Advanced 2018:** Secured **All India Rank 437 (99.97 percentile)** amongst 1.5 million candidates.
- **IIT JEE Mains 2018:** Secured **99.87 percentile** amongst 1.5 million candidates.
- **SIT, Japan Research Exchange Program:** Received grant of **40,000 JPY** by getting accepted into the program.

Technical Skills

- **Web technologies:** HTML, CSS, JavaScript, TypeScript*, Angular*, Django*
- **Programming:** C++, C, Python, Java* • **Miscellaneous:** MySQL, Git, Bash, Vim*, Latex

* Elementary proficiency

Key courses taken

- **Computer Science:** Data Structures and Algorithms, Database Management Systems, Operating System, Computer Architecture and Organization, Computer Networks, Software Engineering
- **Mathematics:** Probability Theory and Random Processes, Discrete Mathematics, Number Theory, Linear Algebra

Positions of Responsibility & Extracurriculars

- **Branch Representative, Computer Science and Engineering Association:** Served as representative of CSE Batch.
- **Events Manager and Member, Debating Society:** Represented IITG in over 7+ debate tournaments across India.
- **Organizer, IITG MUN 2019:** Organized IITG Model United Nations during Alcheringa, cultural fest of IITG.



Shivam Baghel

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Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech	Indian Institute of Technology, Guwahati	6.25 (Current)	2018 - Present
Senior secondary	CBSE board	89.0%	2017
Secondary	CBSE board	78.0%	2015

Technical skills

- **Programming languages :** C++,C, Python*, Java *
- **Web technologies :** HTML, CSS, Javascript
- **Database management :** mySQL
- **Miscellaneous :** Android programming *
- **Operating system :** Windows, Linux

* *Elementary proficiency*

Key courses taken

- | | |
|---|--|
| • Computer lab | • Data Structure and Algorithm |
| • Database Management System | • System Software Laboratory |
| • Formal Languages, Automata Theory and Computation | • Computer Architecture and Organization |
| • Operating Systems | • Machine Learning |
| • Parallel Computer Architecture* | • Parallel Algorithms |
| • Internet of Things* | • Software Engineering |
| • Deep Learning | |

* To be completed in Nov 2021

Achievements

- **Joint Entrance Examination 2018 :** Secured All India General Rank 14434.



Shivam Kumar Agrawal

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Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech.	IIT, Guwahati	8.31 (Current)	2018 - Present
Senior Secondary	BSEB Board	75.2%	2018
Secondary	CBSE Board	10.0	2016

Experience

- Microsoft India** May 2021 - July 2021
Software Engineer Intern Bangalore, India
 - Optimized Document Db for calculating aggregates over job executions using **change feed**. Reduced query latency for getting continuous changing aggregates from seconds to milliseconds.
 - Integrated the **Cosmos Db SQL API** to auto-send the aggregates to the desired destination in a robust manner.
 - Performed detailed evaluation of performance and cogs in terms of latency, Rus consumed, time taken to execute the query, data reliability and consistency. Technologies used: .NET, Cosmos Db, Cosmos Db SQL API

Projects

- Immersive Human Digestive System Tour VR Application** Jan 2021 - Apr 2021
Dr. Samit Bhattacharya, Professor, Dept. of CSE, IIT Guwahati git.io/JuuU6
 - Designed an immersive Virtual Reality(VR) application that would help school students to learn about the functionalities of the human digestive system by visualizing the interaction of organs in the digestion process.
 - Prepared *software requirements specification(SRS)* document, design document using *data flow diagram(DFD)*, *prototype* and *empirical study* document for the application.
- Speech Lab** May 2020 - July 2020
Team Project git.io/JJV4I
 - Developed a web-based comprehensive platform to manage course activities like course creation, assignment submission and grading, profile management, live discussion rooms, attendance, event calendar and notices.
 - Technologies used: Django for website backend and Firebase as the database.
- Assembler and Parser** Jan 2021 - Apr 2021
Dr. Pinaki Mitra, Professor, Dept. of CSE, IIT Guwahati git.io/Jua2g
 - Created a C++ program to implement a 2 pass assembler and linking loader for SIC/XE assembly language.
 - Created LEX specification of the tokens of PASCAL language and constructed a lexical analyzer for PASCAL language using LEX compiler. Generated the parser of the PASCAL grammar using YACC and LEX.
- Campus Quora** Oct 2019 - Nov 2019
Coding Club ,IIT Guwahati git.io/JJV4Y
 - Worked on an online platform for discussing campus related problems with main features including bookmarks and notifications. Technologies used: Django for website backend and SQLite as the database.

Technical Skills

- Programming Languages:** C, C++, C#*, Java*
- Web Technologies:** Django, HTML, CSS, JavaScript*
- Database management:** Cosmos DB, MySQL, Firebase
- Miscellaneous:** Git, Android programming*
- Operating Systems:** Windows, Linux

Key courses taken

- Computer Science:** Data Structures and Algorithms(Theory and Lab), Operating Systems(Theory and Lab), Databases (Theory and Lab), Computer Networks, Computer Architecture, Software Engineering
- Mathematics:** Discrete Mathematics, Probability Theory and Random Processes, Number Theory and Algebra, Linear Algebra

Achievements

- Competitive Programming Platforms:** Achieved highest rating of **1755** on Codeforces (sargon710).
- Joint Entrance Examination - Advanced 2018:** Secured **AIR 2221** among 0.23 million candidates.
- Joint Entrance Examination - Mains 2018:** Secured **AIR 2077** among 1.13 million candidates.
- National Standard Examination in Physics 2017-18:** Placed in **National Top 1%** among 50000+ candidates enrolled.
- National Standard Examination in Chemistry 2017-18:** Placed in **National Top 1%** among 50000+ candidates enrolled.

Extra-curriculars

- City representative, Technothlon 2019:** Conducted an offline exam in Madhepura organized by IIT Guwahati.
- Mentor, CSEA:** Mentored cse students under the Mentor-Mentee program of CSEA.
- Member of hostel Dance team which won in Manthan, 2019.
- Represented my hostel in Independence Day Parade in August 2019.
- Member of hostel Hockey team and Kho-Kho team in Spardha, 2019.



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Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech.	IIT Guwahati	6.35 (Current)	2018 - Present
Senior Secondary	CBSE Board	92.4%	2018
Secondary	CBSE Board	10.0	2016

Projects

- **E-Commerce Website** Mar 2020 - July 2020
Self-Guided Project <git.io/JuQFS>
 - Developed a website where user can see available product, delivery status, customer can place, delete, update their orders along with user, admin authentication system.
 - Used Django in backend, SQLite for database and HTML, CSS, JS and Bootstrap for page responsiveness.
- **Inter-IIT Sports Management System** Jan 2021 - Apr 2021
Dr. Samit Bhattacharya, Dept. of CSE, IIT Guwahati <git.io/Juhq9>
 - Developed a software solution to help the event managers to smoothly communicate with the participants and also the users to get the necessary event updates.
 - Designed and documented with SRS report, Contextual Enquiry, Prototyping and did Empirical study.
- **RemindMeApp** Feb 2021 - Jun 2021
Coding Club IIT Guwahati <git.io/JuQbF>
 - App for organisers to schedule events and for users to get notification and details of the event if subscribed to the respective club in the app.
 - Developed mobile application in Flutter using dart for campus students.
- **Web-Tracker(Chrome Extension)** Feb 2021 - Mar 2021
Coding Club IIT Guwahati <git.io/JuQNQ>
 - Developed a chrome extension that keeps track of domains a user visits and displays time spent on each site.
 - Created using vanilla JavaScript and Chrome APIs.

Technical Skills

- **Programming Languages:** C, C++, Python
- **Web Technologies:** HTML, CSS*, JavaScript, Bootstrap*, Django
- **Database Management:** MySQL, Google Firebase
- **Operating Systems:** Windows, Linux
- **Miscellaneous:** Git, LATEX*, Flutter, Arduino IDE*

*Elementary Proficiency

Key Courses Taken

- | | |
|---|---------------------------------------|
| • Data Structures (Theory & Lab) | • Algorithms |
| • Operating Systems (Theory & Lab) | • Discrete Mathematics |
| • Computer Networks (Theory & Lab) | • Parallel Computer Architecture |
| • Database Management System (Theory & Lab) | • Software Engineering (Theory & Lab) |

Achievements

- **Competitive Programming:** 1762+ rating on Codechef (*shivraj_68*) and 1662+ on Leetcode (*shivraj68*).
- **Samsung Star Fellowship 2019:** Secured scholarship that is awarded to top JNV passed students who are in IITs.
- **Shooting Star Fellowship 2020:** Selected among top-brilliant students from various engineering colleges in India.
- **Mathematics Olympiad 2017 (RMO & INMO):** Selected for Indian National Mathematics Olympiad 2017.
- **NTSE 2016:** Qualified the first stage of National Talent Search Examination at the state level (*Madhya Pradesh*).

Positions of Responsibility

- **College Representative** - IIT Guwahati in the 9th DAAN Council (2019-2020).

Extracurriculars

- **Kriti 2018-19:** (Annual Inter-Hostel Technical Competition) secured 1st position in *Burnout* car design competition.
- **Spardha 2018-19:** (Annual Inter-Hostel Sports Competition) secured 4th position under 59kg in Powerlifting event.
- **Amcat 2019:** Successfully completed amcat employment recommendation test for *Technical Operations*.



Jaswanth Tanneeru

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech	Indian Institute of Technology Guwahati	7.28	2018 - Present
Senior Secondary	TSBIE, Telangana	97.9%	2018
Secondary	BSEAP, Andhra Pradesh	9.8	2016

PROJECTS

- **Project TARTARUS** *Ongoing*
Dr. S.B.Nair, Professor, Dept. of CSE, IIT Guwahati
 - Tartarus is a multi-agent platform that facilitates users to create an overlay network of nodes to program and release agents into the network, see their interactions in real-time and perform real-world emulation experiments.
 - Working on FIPA Agent Communication module, which connects Tartarus and heterogeneous agents.
- **Network Chess** *Sep 2021*
git.io/JuQNJ
Group Project
 - Developed a multi-player chess game that can be hosted over a network using Python. Used Pygame library to build the GUI and network socket programming to establish connections and exchange information among the Players.
- **Cinelog** *May 2021*
git.io/JuOXU
Personal Project
 - Built a web-based service that allows users to log, curate and review movies and movie-watching patterns.
 - Includes functionalities like rate and review movies; add reviews & lists of other users and movies to favourites. Used Django framework and TMDB API for movie details.
- **Visual Sorting** *Dec 2020*
git.io/JuYAw
Personal Project
 - Developed a front-end Web application to visualize various sorting algorithms. Implemented algorithms including Bubble Sort, Selection Sort, Insertion Sort, Merge Sort, Heap Sort, Quick Sort and demonstrated phase-wise progress in the algorithms.
- **Codeforces Crawler** *Jul 2020*
git.io/JJaHV
Group Project
 - Built a website that gives a detailed analysis of user codeforces performance and contributions in various graphs, pie-charts and heat maps. Used Codeforces API for data collection and Google charts for data visualization.

TECHNICAL SKILLS

- **Programming Languages:** C, C++, Prolog, Python*
- **Database:** MySQL
- **Web Technologies:** HTML, CSS, Django, JavaScript*
- *** Elementary Proficiency**

KEY COURSES

- Algorithms and Data Structures
- Design and Analysis of Algorithms
- Operating Systems
- Computer Organization & Architecture
- Computer Networks
- Database Management Systems
- Software Engineering
- Probability Theory and Random Processes

ACHIEVEMENTS

- **JEE Advanced (2018):** Secured All India Rank **532** among 0.16 million candidates.
- **JEE Main (2018):** Secured All India Rank **429** among 1.26 million candidates.
- **Kishore Vaigyanik Protsahan Yojana:** Awarded National research fellowship by securing a position in **top 1%**.
- **Association of Mathematics Teachers of India:** Secured All India Rank **7** and **15** in class 8 and 6 respectively.

POSITIONS OF RESPONSIBILITIES

- **Cultural Secretary, Dihing hostel** 2019 - 2021
 - Elected by 300 member student body to be the Cultural Secretary of Dihing Hostel.
 - Administered various cultural activities of hostel. Spearheaded the Hostel team in the inter hostel cultural contest.

EXTRA CURRICULARS

- **Inter IIT Cultural Meet 4.0 (2019):** Stood 4th among 16 IITs in the online filmmaking module.
- **IFP and Movify (2019):** Participated in Indian Film Project's and Movify's 50 hours filmmaking competitions.
- **Chalchitra (2019):** Member of Events team, Chalchitra, The Annual Film Festival of IIT Guwahati.
- **Manthan (2019 & 2020):** (Inter Hostel Cultural Meet, IITG) Hostel team Leader in 2020 and a member of Group Dance and Photography teams in 2019.
- **Spardha, 2019:** (Inter Hostel Sports Meet IITG) Bronze medallist, Volleyball team, 2019.
- **City Representative, Technothlon (2018-19):** Brought participation of 800+ students from various schools.



Tarun Uba

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Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech.	IIT, Guwahati	8.24 (Current)	2018 - Present
Senior Secondary	CBSE Board	94.8%	2018
Secondary	CBSE Board	10.0	2016

Experience

- **BNY Mellon Summer Intern** May-Jul 2021
Software Development Intern
 - Developed the framework for the **Validation Calendar**. This required creation and interconnection of multiple services which then generated a calendar daily to send notifications regarding account status as required.
 - Created an extensive testing framework for the services and delivered an educational presentation for the team.
 - **Key Technologies:** *HTML, CSS, JavaScript, TypeScript, Angular, Jasmine and Karma*

Projects

- **T-Time Shopping Website** Jan 2020
Coding Club *TarunUba/T-shirt-design*
 - Developed an **e-commerce website** which provides a new platform for the IITG community to buy IITG apparels with personalised accounts, polling option. This project represented Coding Club in **TechEvince 2020**.
 - Contributed in creating facility for new T-shirt design, User Profile and Cart Model for the website.
 - **Technologies used:** *HTML, CSS, JavaScript, Django*
- **Student Placement App** April 2020
Computer Science and Engineering Association *TarunUba/Placement-Portal*
 - Developed a **mobile application** for supporting placements on campus for students and companies.
 - Features user Profile, Brochure Upload/Download, application for internships/jobs and shortlisting students.
 - **Technologies used:** *Android Studio(Java) and Firebase*
- **VLSID-21 Conference Website** March 2020
Assistant Prof.John Jose, Computer Science department IITG *Developer Certificate*
 - Created the **web portal** for the 34th International Conference on **VLSI Design** and the 20th International Conference on Embedded Design that was conducted by IITG in January 2021.
 - **Technologies used:- PyCharm, HTML, CSS, JavaScript**
- **Kirkpatrick-Seidel Algorithm Visualizer** April 2021
Self Project *TarunUba/Kirkpatrick-seidel*
 - Designed and developed a **website** to showcase step-by-step visual description of Kirkpatrick-Seidel algorithm. This algorithm is used to determine convex hull for given set of points in asymptotically optimal time $O(n \log h)$.
 - **Technologies used:- JavaScript, CSS, HTML**

Technical Skills

- **Programming Languages:** C++, C, Python, Java, TypeScript, JavaScript
- **Web Technologies:** Angular, HTML, CSS, Bootstrap, Django*
- **Database management:** Firebase, MySQL*
- **Miscellaneous:** Android Studio, Anaconda, Git, Jasmine, Karma, Xilinx, PyCharm, LATEX, Arduino IDE*
- **Operating Systems:** Windows, Linux* ** Elementary Proficiency*

Key courses taken

- Data Structures and Algorithms(Theory and Lab)
- Software Engineering(Theory and Lab)
- Computational Geometry
- Probability Theory and Random Processes
- Operating System(Theory and Lab)
- Database Management(Theory and Lab)
- Computer Architecture and Organisation
- Design and Analysis of Algorithms

Achievements

- **Competitive Coding :**
 - 6 stars in Hackerrank-Problem Solving (**tarunuba**).
 - Specialist at Codeforces with maximum rating 1582 (**SarsaParilla**).
- **Joint Entrance Examination(JEE) - Advanced 2018:** AIR(OBC-NCL) 231.
- **Inter School Maths Quiz:** Bagged 3rd position in 12th Standard.

Extracurriculars

- **Web Developer at Coding Club:** Contributed in creating new web portals with better functionalities.
- **Technical Projects:** Developed a remote controlled racing car in Inter-Hostel Competition-Kriti.
- **Member of Alcheringa 2019 - Event Management Team:** Successfully organised big fun events for mass crowd participation including an attempt to break a world record for most hand prints on a wall in an hour.
- **Football:** Participated in Summer Camp organized by the Government.



Tushar Jain

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. Major	Indian Institute of Technology Guwahati	6.74 (current)	2018-Present
Senior Secondary	CBSE Board	95.6%	2018
Secondary	CBSE Board	9.4	2016

PROJECTS

- **Chatcord | Real-time chat application** Mar. 2021 - Apr. 2021
Personal Project Github
– A **Web App** where users can enter chat rooms and have a conversation.
– A Web Development Project built on **Node.js** runtime & **Express.js**.
- **Activity Tracker Browser Extension** Dec. 2020 - Mar. 2021
Coding Club, IIT Guwahati | Team Project Github
– A **Chrome Browser Extension** to track user activity and helps the user maintain a steady workflow.
– Users can manage a list of blocked websites and, when visited, will be redirected to an alert page.
– Developed the front-end with the use of **Javascript, CSS & Google API**.
- **SAC-Call** Dec. 2020 - Mar. 2021
Coding Club, IIT Guwahati | Team Project Github
– An **Mobile App** to get notifications about the clubs the users are interested in by subscribing to them.
– The mobile application is build using **Flutter SDK** and can be used on both Android and iOS.
- **Inter-IIT Tournament Management System** Jan. 2021 - Apr. 2021
Prof. Samit Bhattacharya | Dept. of Computer Science and Engineering Github
– A system for obtaining the latest news and updates of Inter-IIT tournaments.
– Developed a prototype for this system using **Figma**.
- **File Organizer** Apr. 2021
Personal Project Github
– This is a small **cli** program to help users arrange files in folders based on their category, written in **python**.
– Categories provided are Documents, Pictures, Videos, Music, Programs, Compressed and Others

TECHNICAL SKILLS

- **Programming:** C/C++, Java*, Python*
- **Database management:** MySQL*, Google Firebase*
- **Development Technologies:** HTML, CSS, Javascript*, Express*, Flutter*, NodeJS*
- **Miscellaneous:** Git, Latex, Markdown
- **Operating Systems:** Windows, Linux

* Elementary proficiency

KEY COURSES TAKEN

- **Computer Science:** Data Structures and Algorithms, Analysis of Algorithms, Database, Operating Systems, Computer Networks, Software Engineering
- **Mathematics:** Linear Algebra, Discrete Mathematics, Number Theory

ACHIEVEMENTS

- **Codeforces - Max rating : 1586:** @-tj-dsk-tpp-
– Codeforces Round #650 (div.3) - Secured **global rank 1961** among 16001 contestants.
– Codeforces Round #721 (div.3) - Secured **global rank 1911** among 15567 contestants.
– Codeforces Round #727 (div.2) - Secured **global rank 1650** among 10364 contestants.
- **Codechef - Max rating : 1597:** @tj_dsk_tpp
- **JEE:** Secured **99.7** percentile among **0.155** million candidates in JEE Adv. 2018

EXTRA-CURRICULAR

- **Manthan 2019-20:** Secured **Bronze (third place)** in slam-poetry representing the Kapili Hostel.



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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech.	IIT Guwahati	6.97 (Current)	2018 - Present
Senior Secondary	CBSE	97.2%	2017
Secondary	CBSE	10.0 CGPA	2015

PROJECTS

- **Tour-Camps** *Mar 2020 - Aug 2020*
Personal Project <git.io/JuPpg>
 - A **web development project** developed using *Express.js* with *MongoDB* for storage.
 - Developed a website where users can advertise their tourism locations worldwide and implemented a review, image upload system for authenticated users.
- **SAC-Call** *Dec 2020 – Feb 2021*
Coding Club, IIT Guwahati <git.io/JtqWF>
 - An **app development project** developed using *Flutter SDK* with *Google Firebase* for storage.
 - Developed an android app for student activity center (SAC) clubs. Members of a club can subscribe to the club group and get reminders about club meetings.
- **Activity Tracker** *Dec 2020 - Mar 2021*
Coding Club, IIT Guwahati <git.io/JuX87>
 - Developed the frontend of a **chrome extension** developed using *Javascript* and *Google APIs*, which tracks time spent by the user on various websites.
- **Inter IIT Tournament Management System** *Jan 2021 - Apr 2021*
Prof. Samit Bhattacharya, Dept. of Computer Science, IIT Guwahati <git.io/JubJt>
 - Prototyped an Inter-IIT tournament management system following the entire *Software Development Life Cycle*.
- **Restful BlogApp** *Jun 2020*
Personal Project <git.io/JtqWK>
 - A **web development project** developed using *Express.js* with *MongoDB* for storage.
 - Developed a blogging website based on restful notation, which uses *HTTP* for all *CRUD* operations.

ACHIEVEMENTS

- **Leetcode: Max rating - 2110:** <leetcode.com/ujwalkr01>
 - Leetcode Weekly Contest 254: Secured **Global Rank 174** among 13755 Contestants.
 - Leetcode Biweekly Contest 52: Secured **Global Rank 237** among 10364 Contestants.
 - Leetcode Weekly Contest 251: Secured **Global Rank 277** among 13663 Contestants.
- **Codechef: Max rating - 1943:** <codechef.com/users/predatorr>
 - June Cook-Off 2021 Division 2: Secured **Global Rank 256** among 4127 Contestants.
 - March Lunchtime 2021 Division 2: Secured **Global Rank 353** among 2253 Contestants.
- **Hackerearth: Max rating - 1612:** <hackerearth.com/@ujwalkr01>
 - June DSA Challenge 2021: Secured **Global Rank 16** among 939 Contestants.
- **JEE 2018:** Secured 98.7 percentile out of 0.15 million candidates in JEE Advanced 2018.

TECHNICAL SKILLS

- **Programming Languages:** C, C++, Python*, Java*
- **Database management systems:** MySQL, MongoDB*
- **Dev Technologies:** HTML, CSS, Javascript, Google Firebase, Flutter, Express*, NodeJS*
- **Operating Systems and Miscellaneous:** Windows, Linux*, Git, Latex * Elementary Proficiency

KEY COURSES TAKEN

- | | |
|---|---|
| • Data Structures and Algorithms (Theory and Lab) | • Databases (Theory and Lab) |
| • Analysis of Algorithms | • Computer Networks (Theory and Lab) |
| • Operating Systems (Theory and Lab) | • Software Engineering (Theory and Lab) |

POSITIONS OF RESPONSIBILITY

- **CSEA Student Mentor:** Mentoring 5 CSE first-year undergrad throughout their B.Tech programme.

EXTRACURRICULARS

- **Manthan 2018-19:** Secured 3rd place in street play as a part of the Barak hostel team.
- **Spardha 2018-19:** Secured 4th place in badminton and 4th place in arm wrestling representing the Barak hostel.



Amey Varhade

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. Major	Indian Institute of Technology Guwahati	7.43	2018-Present
B.Tech. Minor	Indian Institute of Technology Guwahati	9.25	2019-Present
Senior Secondary	Maharashtra State Board (MSBSHSE)	95.23%	2018
Secondary	Maharashtra State Board (MSBSHSE)	95.80%	2016

EXPERIENCE

- Google Summer of Code (GSoC)** June 2021 - Aug 2021
git.io/JuXQr
Brown University, Machine Learning for Science (ML4SCI) Organization
 o Applied **dimensionality reduction** techniques such as Proper Orthogonal Decomposition (**POD**) and **Autoencoders** to analyse large scale fluid motion data generated from solving **Navier Stokes equation** with spectral methods.
 o Extending on the work done to formulate a detailed statistical theory for turbulent fluid motion in pipe.
- Citrix Systems** Apr 2021 - June 2021
Software Developer Intern, Cloud and Networking Team
 o Designed a solution for the **Canary Deployment** of Kubernetes based applications on Azure Kubernetes Services (AKS).
 o Employed **Azure Devops** pipelines and other tools upon using the Citrix ADC VPX as the Load Balancer.
- Columbia University** July 2020 - September 2020
git.io/JJi0g
Research Intern, Programming Systems Lab, CS Department
 o Developed an **Android** application to record **magnetometer sensor**, **CPU load** readings for analysis and fingerprinting of user locations and activity through various models such as KNN, SVM and Random Forest.
 o Inferred Privacy threats via **side channel attacks** through sensors on smartphone devices with repackaged applications.

PROJECTS

- Incremental Co-clustering of Documents and Words** Jan 2021-Apr 2021
git.io/JqGnS
Data Mining Course Project, Prof. Amit Awekar, Department of CSE, IIT Guwahati
 o Implemented the **Spectral Graph Bipartitioning** in C++ and Armadillo and achieved results at par with the original algorithm in terms of **Purity** and Entropy metrics through the Confusion Matrix.
 o Devised an incremental version of the algorithm reducing computation time by **60%** and improving the purity.
- CDR/IPDR Data Visualizer** Mar 2020-Aug 2020
git.io/JJil4
Smart India Hackathon, Software Edition (Bureau of Police R&D)
 o Developed a fully interactive **Dash** web application for representing call data records as directed graphs and displayed relevant **real time statistics** regarding users and calls with predictive filtering options through a callback based model.
 o Displayed interactive visualizations through **Plotly** and **NetworkX** along with corresponding statistics.
- Accelerators for Convolutional Neural Networks** Jul 2021 - Present
Bachelor's Thesis Project, Prof. Hemangee Kapoor, Department of CSE, IIT Guwahati
 o Explored the algorithmic and architecture based optimization techniques for training and inference of Neural Networks.
 o Synthesizing an accelerator in **PyTorch** for **CNNs** by exploiting the sparsity and redundancy of the computations involved.
- Interview Helper** Aug 2021
git.io/Ju1kk
Personal Project
 o Built a live code sharing and video calling platform through **WebRTC** APIs and **socket programming** for interviews.
 o Used **React.js** and **Node.js** frameworks and integrated user authentication through Google OAuth API and Firebase.

TECHNICAL SKILLS

- Programming Languages:** Python, C, C++, Bash Scripting, Java*
- Tools/Frameworks:** Docker, Kubernetes, MATLAB, Git, MySQL, Android Studio*, Azure*, React.js*
- Data Science:** PyTorch, Keras, Numpy, Matplotlib, Pandas, Scikit-learn, OpenCV*, Plotly* * Elementary proficiency

ACHIEVEMENTS

- Smart India Hackathon**, Shortlisted among top **5** teams nationally for Final round in Data Visualisation Problem. **2020**
- ACM ICPC**, Achieved National Rank of **657** in ICPC Amritapuri Preliminary Round 2021. **2021**
- KVPY**, Offered the KVPY fellowship twice by GOI for the streams KVPY-SA and KVPY-SX. **2016(SA) 2017(SX)**
- RMO**, Qualified the Pre-RMO examination twice and selected to appear for RMO. **2014, 2015**

KEY COURSES TAKEN

- Computer Science:** Data Structures, Algorithms, Operating Systems, Databases, Computer Networks, Data Mining, System Software Lab, Software Engineering, Computer Organization and Architecture
- Mathematics:** Discrete Mathematics, Probability Theory, Number Theory, Game Theory, Linear Algebra
- MOOCs (Coursera):** Machine Learning, Deep Learning Specialization (5 courses)

POSITIONS OF RESPONSIBILITY

- Secretary**, Fine Arts Club, Cultural Board, IIT Guwahati. Apr 2019 - Aug 2020
- Coordinator**, Student-Alumni Interaction Linkage (SAIL), IIT Guwahati. Apr 2021 - Present



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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech.	Indian Institute of Technology, Guwahati	7.31 (Current)	2018-Present
Senior Secondary	GSEB board	88.92%	2018
Secondary	GSEB board	91.17%	2016

EXPERIENCE

- Envestnet Yodlee** *May 2021 - Jul. 2021*
Banglore
Software Developer Intern
 – Developed a java based application to analyse the given data and to classify the missing data into various patterns depending on their source.
 – Tools and technologies used: Spring framework, JUnit for unit testing.
 – Utilized Yodlee specific api endpoints to get the user information.
 – Implemented multithreading for better performance.

PROJECTS

- Pre-Election-Portal** *Feb. 2020*
Students Web Committee(SWC), IIT Guwahati
 – Developed a Django based website for information and statistics related to the campus elections.
 – Implemented class based views for CRUD functionality.
- Pascal Language Parser** *March 2021*
git.io/JEVfY
Personal Project
 – Developed a parser for Pascal language using Lex and Yacc.
 – Error detection for syntax and semantic errors.
- Social media clone** *April 2021*
git.io/JEVUt
Personal Project
 – Developed clone of a social media web app(full stack).
 – Developed the frontend using React and backend using nodejs(MERN stack).
 – Implemented authentication and authorization using JWT.
- Uninterruptify** *July 2021*
git.io/Juyct
Personal Project
 – Discovered a way to get rid of spotify ads and created an automation program to implement it.
 – Developed a python program that can play upto 100 songs in a spotify playlist without any ads.
 – Implemented automation using chrome web-driver and selenium.

TECHNICAL SKILLS

- Programming:** C/C++, Java, Python*
- Web Technologies:** HTML, CSS, Javascript, Reactjs, Django, Nodejs
- Database Management:** MySQL, MongoDB*
- Tools:** Git*, Bash Scripting*
- Operating System:** Windows, Linux

* Elementary proficiency

KEY COURSES TAKEN

- Data Structures (Theory & Lab)
- Design and Analysis of Algorithms
- Operating Systems (Theory & Lab)
- Databases (Theory & Lab)
- Computer Networks (Theory & Lab)
- Computer Organization and Architecture
- Programming Languages(Lab)

POSITION OF RESPONSIBILITY

- City Representative, Navsari:** Technothlon 2019, IIT Guwahati *June 2019*

EXTRACURRICULARS

- Student's Activity Course:** Undertook a year-long introductory course in Football.



Milind B Prabhu

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. Major	Indian Institute of Technology, Guwahati	9.32 (Current)	2018-Present
Senior Secondary	NIOS Board	93.6%	2018
Secondary	CBSE Board	10.0	2016

EXPERIENCE

- PACT 2019** *June 2019 - July 2019*
Princeton University, USA.
Attended the Program in Algorithmic and Combinatorial Thinking
 - Learnt about a variety of randomized algorithms while interacting with leading researchers in the field.
- Research Internship** *May 2020 - July 2020*
Collaborated Virtually
Advised by Dr.Sepehr Assadi, Assistant Professor, Rutgers University, USA.
 - Worked in the area of streaming algorithms, more specifically, algorithms for **quantile estimation**.
 - Understood the Greenwald-Khanna Algorithm for uniform quantiles and attempted to simplify its analysis.
 - Designed a simpler version of the algorithm and wrote a paper which is in the process of submission.
- Research Internship** *June 2021 - Present*
Collaborated Virtually
Advised by Dr.David Woodruff, Associate Professor, Carnegie Mellon University, USA.
 - Worked on a more general version of the **Mastermind Problem** and proposed new algorithms and lower bounds for it.

PROJECTS

- Clustering Documents Using Spectral Techniques** *Jan. 2021 - Apr. 2021*
Github
CS568 Data Mining, Advised by Dr.Amit Awekar, CSE Department, IIT Guwahati
 - Implemented the **Spectral Co-Clustering Algorithm** in C++ and tested its performance against existing datasets as well as synthetic datasets.
 - Proposed an incremental version of the above algorithm and implemented it. By testing it on various datasets, we observed that it required only 60% of the computation time of the original algorithm.
- Separation Dimension of Graphs** *August 2021 - Present*
Bachelors' Thesis Project, Advised by Dr. Benny George K, CSE Department, IIT Guwahati
 - In this project we are trying to study a combinatorial property of graphs called their separation dimension. Specifically, we are interested in polynomial time algorithms to identify graphs with small separation dimension.
 - Proposed a **novel deterministic construction of separating permutations of a clique** which is in the process of submission.

KEY COURSES TAKEN

- Computer Science:** Data Structures, Algorithms, Database Management, Operating Systems, Computer Networks, Randomized Algorithms, Parallel Algorithms, Machine Learning, Data Mining .
- Mathematics:** Calculus, Real Analysis, Linear Algebra, Discrete Mathematics, Probability and Random Processes, Optimization, Elementary Number Theory and Algebra.

TECHNICAL SKILLS

- Programming Languages:** C/C++, Python, Java*, SQL*, LATEX
- Data Science:** Numpy, Matplotlib, Scikit-learn, Pandas, OpenCV*

* Elementary proficiency

ACHIEVEMENTS

- Codeforces:** Peak rating of **1826** on Codeforces as of 16th September, 2021. 2021
- PACT 2020:** Guest speaker at Program in Algorithmic and Combinatorial Thinking. Gave a virtual talk on lower bounds for streaming algorithms via communication complexity. 2020
- JEE Advanced:** Secured an All India Rank of **582** among 1.5 lakh candidates appearing for the test. 2018
- Indian National Mathematical Olympiad:** Earned a **certificate of merit** in the **INMO** examination. 2017
- KVPY:** Secured an All India Rank of **162**. Was offered the KVPY fellowship by the Government of India. 2017
- NTSE:** Was awarded the National Talent Search Examination scholarship. 2016

POSITIONS OF RESPONSIBILITY

- Technical Secretary:** Manas Hostel, IIT Guwahati

Apr. 2019 - Apr. 2020



Pulkit Changoiwala

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. Major	Indian Institute of Technology, Guwahati	9.17 (Current)	2018-Present
Senior Secondary	CBSE Board	97.4%	2018
Secondary	CBSE Board	10	2016

EXPERIENCE

- Interim Engineering Intern** May 2021 - Jul 2021
Qualcomm India Pvt. Ltd.
 - Worked on the enhancement of **ETM trace parser** of Qualcomm's digital signal processor. Parser outputs system and tasks' stats, states of hardware threads, and call stack information, which are used for debugging when the system crashes.
 - Generated the parser's output with **time breakdown**, allowing the users to debug the system crashes in a **single run**.

PROJECTS

- Incremental NG-DBSCAN** Jan 2021 - Apr 2021
Dr. Amit Awekar, Assistant Professor, IIT Guwahati git.io/J3Jv6
 - Proposed and implemented the **incremental version of NG-DBSCAN** (Density-Based Spatial **Clustering algorithm**).
 - The algorithm clusters the points using **ϵ -neighborhood** and efficiently updates the clusters on a change in the dataset.
 - It has **five times speed-up** and more than **80% accuracy** in comparison to the static version.
- Video Chat App** Jun 2021 - Jul 2021
Personal Project bit.ly/video-chat- | git.io/JErFf
 - Developed a **WebRTC** based **video conferencing** web application that can be used to **chat and host virtual meetings**.
 - Implemented several features like Send Emoji, Quick Message, Screen Share, Store Chat, Raise Hand using **Node.js**.
- Path Finding Visualizer** May 2021 - Jun 2021
Team Project bit.ly/findPath | git.io/JErLl
 - Developed a **React.js** based interactive web application to **visualize graph algorithms** like **DFS**, **BFS**, **A***, and **Dijkstra**.
 - Implemented features like changing source and destination, generating grid, adding weighted nodes, walls, and animations.
- Deep learning-based Pose-estimation for Visual SLAM** Ongoing
Bachelors' Thesis Project, Dr. Arifit Sur, Associate Professor, IIT Guwahati
 - To facilitate effective and automatic learning of the parameters in **Visual odometry**, my work aims to explore and find a deep learning-based approach to estimate the depth of a scene from an image.

TECHNICAL SKILLS

- Programming:** C/C++, Python
- Web Technologies:** HTML, CSS, JavaScript, Node.js, Django
- Tools/Frameworks:** React*, socket.io, PeerJS, Pandas, Numpy
- Miscellaneous:** Git, MySQL, Firebase, AWS*, Linux* * Elementary proficiency

KEY COURSES TAKEN

- | | |
|--|---|
| • Algorithms and Data Structures | • Randomized Algorithms |
| • Computer Architecture and Organization | • Probability Theory and Random Processes |
| • Operating Systems | • Computer Organisation and Architecture |
| • Computer Networks | • Deep Learning |

POSITIONS OF RESPONSIBILITY

- E-Cell Growth Head**, Entrepreneurship Cell, IIT Guwahati Feb 2020 - Feb 2021
 - Developed and executed growth hacks on social media handles and managed to bring **8000+ followers** in five months.
 - Jointly led a team of more than 100 members for improving startup culture in the country.
- PMx Head**, Udgam 2021, IIT Guwahati Feb 2020 - Feb 2021
 - Ideated and organized PMx - a **product case study competition** for UDGAM 2021 along with a mentorship program.
 - Managed to bring **1200+** participants and initiated a **product slack community** with 500+ active members.

ACHIEVEMENTS

- Codeforces Round #725**, ranked **438** among **12,000+** participants.
- Rated **1910** on *Leetcode*, **Expert**(max rating - 1697) on *Codeforces*. Solved **1000+** programming problems.
- Awarded **Samsung Fellowship**, to carry out translational research.
- Branch Change**, from Civil Engg. to Computer Science and Engg., as I was **among top 10 students** in the institute.
- NEST (Nationwide Education and Scholarship Test, 2016)**, secured All India Rank 12.



Vedika Kulkarni

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech	Indian Institute of Technology, Guwahati	8.94 (Current)	2018-Present
Senior Secondary	Maharashtra State Board (HSC)	94.46%	2018
Secondary	Maharashtra State Board (SSC)	97.20%	2016

EXPERIENCE

• Programming/Research Intern - IIT Guwahati

April 2021 - July 2021

Mentor: Dr John Jose, Dept. of Computer Science

- Programmed Hardware Trojan that induces huge delay (800% Latency Rise) in Network-On-Chip (NoC) packets.
- Implemented Trojan Mitigation framework via dynamic Trojan detection and packet re-routing to bypass Trojan.
- Used Gem5 simulator (C++, Python3) to program Trojan and Mitigation, tested on SPEC2006 benchmarks.

• Research Intern - BlockDeliver (New York-based Startup)

June 2020 - Dec 2020

Technical Research Team

- Analyzed research problems in blockchain-powered peer-to-peer Content Delivery Networks (CDNs) like
 - Selection of CDN Caches based on network conditions to service a content request in real-time
 - Performance-based Reputation System Design for CDN Caches and Content Providers
 - Content Placement and Replacement problems across peers in the decentralized CDN
- Designed and formulated algorithms to tackle the above problems.

• Research Intern - PVG's College of Engineering

April 2020 - June 2020

Mentor: Dr Kalyani Kulkarni, Dept. of Electronics and Communication

- Examined the rural electrification scenario in India & reasons for hesitancy towards adoption of grid electricity.
- Assessed how Blockchain-based Smart Grid Model can tackle those issues with features like billing accuracy, decentralized energy marketplace, energy balance between multiple grids & increase in renewable energy contributions.

PEER-REVIEWED PUBLICATIONS

• Packet Header Attack by Hardware Trojan in NoC based TCMP and its Impact Analysis

NOCS2021

Vedika Kulkarni, Manju R., Ruchika Gupta, John Jose, Sukumar Nandi

bit.ly/3BQlyp2

• A Blockchain-based Smart Grid Model for Rural Electrification in India

icSmartGrid2020

Vedika Kulkarni, Kalyani Kulkarni

bit.ly/3ySvBZ1

SELECTED PROJECTS

• Destination ID Manipulation Attack in Network-on-Chip (NoC) and its Mitigation

July 2021 - Present

Bachelor's Thesis Project (BTP), Dr John Jose, IIT Guwahati

git.io/Jucon

- Coded Hardware Trojan that manipulates destination of NoC packets causing 80% decline in processor throughput.
- Programmed encryption-based Mitigation with dynamic detection of Trojan, shielding the Trojan and packet re-routing. System throughput gets restored to 88% of its original value via this security framework.
- Used Gem5 simulator (C++, Python3) to program the Trojan and Mitigation.

• Call Data Records (CDR) Visualiser

June 2020 - Aug 2020

git.io/JJ4aN

Smart India Hackathon

- Created an interactive web app that uses CDR/IPDR data to help Law Enforcement Agencies to track offenders.
- Developed a callback-based model where events trigger database queries and update statistics in real-time.
- Built various filter options to assist in quick search with the help of Python's Plotly Library and Dash framework.

HONORS AND ACHIEVEMENTS

• Google Women TechMakers (Generation Google) Scholarship: Among 74 Scholars selected across India and China

• DE Shaw India DESIS Ascend Fellowship for Computer Science: Among 30 Fellows selected across India

• Government of India's Smart India Hackathon Finalist: Among 5 finalists across India

• MHRD's Samadhan Hackathon Finalist: Among top 9 student innovators across India

• Branch Change to Computer Science: Among top 9 students (CPI-based) in IIT Guwahati 2022 batch

• JEE Advanced 2018: Secured AIR 2860 out of 0.15 million candidates that appeared for the test

• MHT-CET 2018: Secured State Rank 25 , Ladies State Rank 3 across 4.3 million MHT-CET examinees

TECHNICAL SKILLS

• Programming: C/C++, Python

• Hardware: Gem5 simulator, Verilog*

• Web Technologies: HTML, CSS, JavaScript*, Dash

• Operating Systems: Windows, Linux

• Databases: mySQL, Firebase*

• Blockchain: Solidity, Ethereum, Ganache, Truffle

* Elementary proficiency

KEY COURSES TAKEN

- Data Structures & Algorithms (Theory + Lab)
- Database Management Systems (Theory + Lab)
- Operating Systems (Theory + Lab)
- Computer Networks (Theory + Lab)
- Software Engineering (Theory + Lab)

- Computer Organization & Architecture
- Parallel Computer Architecture
- Formal Languages & Automata Theory
- Probability Theory and Random Processes
- Discrete Mathematics



Doddavula Likhith Kumar Reddy

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech	Indian Institute of Technology, Guwahati	8.87	2018-Present
Senior Secondary	APBIE	98.6%	2018
Secondary	APBSE	10.0	2016

EXPERIENCE

- Qualcomm** May 2021 - July 2021
SDE Intern Remote
 - Successfully devised a method in C++ to obtain the hardware and firmware versions of PCI switch to a System on Chip through bootloader (Aurix) in Advanced Driver Assistance Systems (ADAS).
 - Performed Code Coverage on source code of my project through various test cases using Parasoft tool.

PROJECTS

- Edge Computing Assisted Video Streaming** Ongoing
Bachelor's Thesis Project, Guide: Dr. Arijit Sur, Dept. of CSE, IIT Guwahati Github
 - Focused on devising an adaptive streaming approach using multi-access edge computing with deep reinforcement learning technique.
 - An optimisation model is proposed to consider various factors such as QoE and fairness among clients.
- Splitwise Clone** July 2021
Personal Project Github
 - Implemented a clone of the Splitwise website using *Django*. It makes it easy to split bills with friends and family. It organizes all your shared expenses in one place, so that everyone can see who they owe.
 - Key features are users can settle up with a friend and record any transaction, quickly add expenses on the go, share costs equally or by amounts and keep track of shared expenses, balances and who owes who.
- CLI Based Chat Tool** August 2021
Personal Project Github
 - Built a command-line chat tool using Python. The tool will support multiple chat rooms and can be used to communicate with multiple users on a network.
 - Socket Programming, Multi-threading and Client-Server Architecture concepts are used in building this tool.

TECHNICAL SKILLS

- Programming Languages :** C, C++, Python
- Web Technologies :** HTML, Django*, JavaScript*, CSS
- Database Management :** MySQL
- Miscellaneous :** LATEX, Git, Shell Scripting*, Numpy, Pandas, Tensorflow
- Operating Systems :** Windows, Linux*

* Elementary proficiency

KEY COURSES TAKEN

- | | |
|--|---|
| <ul style="list-style-type: none"> Data Structures and Algorithms Computer Networks Deep Learning Software Engineering Theory and Laboratory | <ul style="list-style-type: none"> Operating Systems Database Management Systems Probability Theory and Random Processes System Software Laboratory |
|--|---|

ACHIEVEMENTS

- Pre Placement Offer (PPO), Qualcomm 2021 :** Received pre-placement offer after 3 month internship.
- Joint Entrance Examination 2018 :** Secured AIR 1478 among 0.16 million candidates appeared for the exam.
- JEE Main 2018 :** Secured AIR 185 among 1.3 million candidates appeared for the exam.
- INCHO - Indian National Chemistry Olympiad 2018 :** Was among the top 600 students selected all over India for the International Chemistry Olympiad's 2nd Stage conducted by HBCSE.
- Samsung Fellowship :** Received Samsung Fellowship for the year 2021-22 to conduct translational research.

EXTRA-CURRICULARS

- Machine Learning and AI Workshop :** Attended a 2-day workshop on Machine Learning and AI in Techniche 2018,IIT Guwahati.
- TechEvince 6.0 :** Simulated an electronic piano under Electronics Club for this event.



Krishna Annapurne

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech.	Indian Institute of Technology, Guwahati	7.05 (Current)	2018-Present
Senior Secondary	Maharashtra State Board	85.08%	2018
Secondary	Maharashtra State Board	97.40%	2016

EXPERIENCE

- Software Engineer Intern(Backend)** June 2021 - July 2021
INDMoney | US-Stocks Team Gurugram
 - Built a feature to list and display details of US and Indian IPOs used by **1M+ users** which boosted overall INDMoney app user engagement by **100%**.
 - Created **APIs** to fetch Dollar-rupee conversion rate in real time, fetch and process per minute stock prices from **dynamodb(AWS)** updating prices on INDMoney website much faster.
 - Worked on feature to auto generate & fill A2-form and mail it to the users, digitalizing the whole process.

Technologies used: Flask, PostgreSQL, AWS

PROJECTS

- No Dues Portal** Jan. 2020 - Feb. 2020
Student's Web Committee, IITG [Github](#)
 - Developed a **Django** based web portal to digitalize the process of no dues for graduating students of IIT Guwahati.
 - Allows students to send no due approval requests to campus administration to be approved or rejected from the portal itself making the process less time taking.
- Design and analysis of algorithms for Cyber-Physical Systems** Ongoing
Bachelor's Thesis Project, Prof. Sushanta Karmakar
 - Game Theory** based active defense for intrusion detection in Cyber-Physical Embedded Systems(CPESs).
- Inter-IIT Tournament Management System** Jan. 2021 - Apr. 2021
Course Project, Prof. Samit Bhattacharya [Github](#)
 - Prototyped an application for the organizer, team managers and participants of the Inter-IIT Sports Tournament.
 - Designed the system to efficiently organize, manage and inform about different events that occur during the tournament following complete **Software Development Life Cycle**.
- Money Manager Chrome Extension** Aug. 2020 - Sept. 2020
Personal Project [Github](#)
 - Developed a **chrome extension** helping users track their spendings and get notified when a specified limit is reached.
 - Built feature to add spent amount from context menu and categorize spendings based on the webpage.

TECHNICAL SKILLS

- Programming:** C, C++, Python*
- Database Management:** SQL, Firebase*
- Web Technologies:** HTML, CSS, Django, Flask*
- Miscellaneous:** Git, Android*

* Elementary proficiency

KEY COURSES TAKEN

- Data Structures(Theory and Lab)
- Operating Systems
- Software Engineering(Theory and Lab)
- Design and analysis of Algorithms
- Database Management
- Computer Networks

ACHIEVEMENTS

- Ninja Hire:** Secured **AIR 200** among 30000+ students participating in the coding contest organized by Coding Ninjas.
- February Challenge 2020 (Codechef):** Secured **Global Rank 859** among 15000+ participants in the coding challenge.
- Codeforces Round 661:** Secured **Global Rank 1209** among 16000+ students participating in the coding contest.
- JEE Advanced 2018:** Qualified being in the **top 0.01%** among 12.5 lakh candidates appearing for the exam.

POSITIONS OF RESPONSIBILITY

- Projects Head:** Coding Club, IIT Guwahati May 2020 - May 2021
- Events Head:** Coding Club, IIT Guwahati May 2019 - Jun 2020

EXTRACURRICULARS

- Codechef:** Active participation in contests to improve programming skills. (Max. rating- 1773, Handle: [krishna0312](#))
- Programming 101:** Taught Python programming language to freshers of IITG as a part of Coding Club, IIT Guwahati.
- Kriti and Manthan:** Participated in Inter-Hostel Technical and Cultural competitions and secured 1st position.



Anshul Mittal

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech	Indian Institute of Technology, Guwahati	8.25 (Current)	2018-Present
Senior Secondary	MPBSE	86.40%	2018
Secondary	CBSE	9.8	2016

EXPERIENCE

- Mynta** May 2021 - Jul 2021
WFH
Summer Tech Intern | Web Crawling Team
 - Integrated all functionalities of existing standalone service with existing architecture, which decreased the human intervention needed significantly.
 - Built a dashboard to display the relevant metrics for tracking and health check.
 - Technologies used: Java, Google Inject, Camel Route, SQL, Elasticsearch, Active JDBC, HTML, CSS, JS-JQuery
 - Received Pre-Placement Offer for work done during the internship.

PROJECTS

- Money Manager Chrome Extension** Aug 2020
git.io/JJiLe
Personal Project
 - Developed a **chrome extension** to track user's spendings and get notified when the specified limit is reached.
 - Built the option to add expense from any web page through the context menu.
 - It also shows the total expenses embedded in the icon as a badge.
- GUI Sudoku Solver** Aug 2020
git.io/JJiSl
Personal Project
 - Developed a GUI based Sudoku game solver using **backtracking approach**.
 - It can be played by the user or can be seen being solved by the computer.
 - Used **Pygame** for GUI and used **Python** for implementation.
- CodeForces Crawler** Mar 2020
git.io/JJiSO
Personal Project
 - An application to get solution of any codeforces problem and other related information given user handle and problem code by web-scraping codeforces website.
 - Used **web-scraping** to parse HTML using **Beautiful Soup** package of Python.

TECHNICAL SKILLS

- Programming Languages:** C/C++, Python*
- Web Technologies:** HTML, CSS, JavaScript*
- Databases:** MySQL, Elasticsearch*
- Miscellaneous:** Android*

* Elementary proficiency

KEY COURSES TAKEN

- | | |
|--|---|
| • Data Structures and Algorithms | • Operating Systems |
| • Database Management Systems | • Computer Networks |
| • Computer Organization and Architecture | • Probability Theory and Random Processes |

ACHIEVEMENTS

- Codeforces Round 720:** Secured global rank **1128** among 13,000+ candidates participating in the contest.
- Ninja Hire 2020:** Secured **30th rank** among 30,000+ candidates in the National level contest organised by Coding Ninjas.
- Joint Entrance Examination 2018:** Secured **All India Rank 530** among 1.05 million candidates appearing for the test.

EXTRA CURRICULARS

- Spirit 2019:** Badminton sports organizer in Spirit (Annual North-East India Sporting Event) 2019.
- Kriti 2018:** Participated in Kriti (Inter-Hostel Technical Competition) 2018 and secured second position.



Bedada Ajay Kumar

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech	Indian Institute of Technology, Guwahati	6.35	2018 - Present
Senior Secondary	Board of Intermediate Education, Telangana	97.2%	2017
Secondary	Board of Secondary Education, Telangana	9.3	2015

EXPERIENCE

- Algoix Lab** Jun 2021 - Jul 2021
Back-end Development Intern Remote
 - Built a website that allows users to pursue courses of their interests modularly and perform projects under experienced mentors upon registration.
 - Course instructors can upload course materials and projects like videos, files and references that are accessible to the users for a lifetime.
 - Implemented features including course and project catalog, tracking the progress of courses and projects.

PROJECTS

- Applications of Machine Learning in Network Security** Ongoing
Bachelor's Thesis Project, Prof. Pinaki Mitra, IIT Guwahati
 - Research on latest encryption algorithms (like DRM, Watermarking) used by popular OTT platforms and explore resource constrained cryptography (with limited power, storage, processing) and incorporate techniques like PUF.
 - Identifying vulnerabilities in the encryption algorithms and developing proof of concepts for these vulnerabilities.
- Job Portal** May 2021
Group Project git.io/JucOI
 - Developed a Django-based application that acts as a channel for recruiters and applicants, where a recruiter can post a job and an applicant can apply for a job.
 - Status of the application can be tracked by the applicants. Key features include registration followed by email verification, adding multiple job profiles for recruiters, job search for applicants and editable profiles.
- Implementation of Programming language** Jan 2021 - Apr 2021
Prof. Pinaki Mitra, Compilers Lab git.io/JipiC
 - Implemented two-pass assembler and two-pass linking loader for SIC/XE Machine Assembly language.
 - Used the LEX compiler to construct a lexical analyzer for simplified PASCAL grammar.
 - Implemented a code parser of the PASCAL grammar using YACC and LEX while handling all syntax and semantic errors.
- BlockSite** Feb 2021
Personal Project git.io/JuFcI
 - Built a Chrome Extension using Javascript to block distracting websites and improve productivity.
 - Users can track the time spent on a website, list all blocked websites, and unblock and block using a simple UI.

TECHNICAL SKILLS

- Programming Languages :** C, C++, Python*
- Web Technologies :** Django, HTML, CSS, JavaScript*
- Database Management :** MySQL
- Miscellaneous :** Git

* Elementary proficiency

KEY COURSES TAKEN

- | | |
|----------------------------------|-------------------------------------|
| • Data Structures and Algorithms | • Design and Analysis of Algorithms |
| • Operating Systems | • Computer Networks |
| • Software Engineering | • Database Management Systems |

ACHIEVEMENTS AND EXTRA-CURRICULARS

- JEE Advanced 2018 :** Secured AIR 1835 among 0.23 million candidates appeared for the exam.
- City Representative, Technothlon, Techniche:** Volunteered in smooth and successful conduction of the preliminary round of Technothlon, 2019 in the city Karimnagar, Telangana.
- Alcheringa 2019:** Worked as Executive in Public Relations and Branding team.
- Toppr.Ltd :** Worked as an online tutor at Toppr Ltd and helped mentor students preparing for JEE and other examinations.



Bhasker Goel

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Github | Website

EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. Major	Indian Institute of Technology, Guwahati	9.11 (Current)	2018-Present
Senior Secondary	CBSE Board	97.6%	2018
Secondary	CBSE Board	10.0	2016

EXPERIENCE

- Nutanix Inc** May 2021 - July 2021
Bangalore, India
Intern, Member of Technical Staff - 1
 – Created a benchmark for frequently used Operations of a core Nutanix Service.
 – Provided a baseline which can be used to derive optimal batch sizes as per the consumer requirements.
 – Automated the benchmarking process so that the performance analysis could be done for future releases without manual effort.
 – Added topology awareness in the nutanix implementation of Kubernetes.

PROJECTS

- Incremental Density-Connected Subspace Clustering for High-Dimensional Data** January 2021 – April 2021
Github
Dr. Amit Chintamani Awekar, Assistant Professor, Dept. of CSE, IIT Guwahati
 – Developed an incremental subspace clustering algorithm based on Incremental DBSCAN and SUBCLU.
 – Optimised the Incremental DBSCAN to provide a speed-up while trading-off some accuracy.
Results: Maximum speed-up of 27.76 times over static SUBCLU with an average accuracy of 89.2%.
- Election Portal** December 2020 – February 2021
Github
Students' Web Committee
 – Developed and deployed a Web Portal relying on Django Framework for its backend to allow 5000+ students to vote for their favourite candidates for Students' Gymkhana Election remotely using their mobile phones and laptops.
 – Worked on facial recognition to ensure only the registered students are voting in the election.
 – Ensured the security of the voting data of the students using cryptographic algorithms.
- COVID Helper** March 2020
Github
Students' Web Committee
 – Developed a Web Portal to allow locals in a community help each other get daily-use products from the market.
 – Worked on Admin Dashboard to allow sorting and filtering of items, based on the emergency levels, location and distance from a particular location.

TECHNICAL SKILLS

- Programming languages:** C/C++, Python, Java, Javascript, MATLAB, Haskell, Prolog, Golang, Kotlin, Solidity
- Web technologies:** HTML, CSS, AJAX, Django, ReactJS, NodeJS
- Miscellaneous:** Android programming, LaTeX, MySQL, PostgreSQL, Google Firestore, Docker, Kubernetes

POSITIONS OF RESPONSIBILITY

- Saathi Mentor**, Peer-Mentorship Programme, Saathi Councilling Cell Apr. 2019 - Present
- Technical Secretary**, Umiam Hostel, IIT Guwahati Apr. 2019 - Apr. 2021
- EE Teaching Assistant for B.Des Students**, Students' Welfare Board July 2019 - November 2019

ACHIEVEMENTS

- ICPC Amritapuri Regional 2021:** Secured rank 50 among 721 participating teams.
- Google Code Jam 2021:** Secured global rank of 1656 among 4500 participants.
- Google Hash Code 2021:** Secured global rank of 2493 among 9000 participants.
- Google KickStart Round C 2021:** Secured Global Rank 468 among 12000 participants.
- Candidate Master on Codeforces (phong_shaded):** Maximum Rating of 1912 on Codeforces.
- Codemania 2020:** Secured Global Rank 27 in Codemania on Codechef among 1500 participants.
- JEE Advanced 2018:** Secured All India Rank 469 among 1.65 Lakh candidates appearing for the test.
- JEE Mains 2018:** Secured All India Rank 792 among 10.50 Lakh candidates appearing for the test.
- KVPY (SX) 2017-18:** Secured All India Rank 218 among 50 thousand candidates appearing for the test.
- NTSE 2016:** Recipient of NTS Scholarship by securing a position in Top 775 among 5 Lakh Candidates appearing for the test.



Chappa Chinmai Anandh

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech	Indian Institute of Technology, Guwahati	7.25	2018 - Present
Senior Secondary	Board of Intermediate Education, Andhra Pradesh	97.3 %	2018
Secondary	Board of Secondary Education, Andhra Pradesh	9.7	2016

EXPERIENCE

- Publicis Sapient** May 2021 - July 2021
Engineering Intern Remote | Bangalore
 – Configured the spring microservices to monitor them without altering the base application by integrating an APM agent while deploying in the Kubernetes cluster using Elastic Stack (APM-server, Elastic Search and Kibana).
 – We were able to observe the KPI metrics, traffic, error rates and latency in real time.
 – This helps the project team to identify website faults even before user feedback. And with distributed tracing, Bottlenecks in latency and errors can be broken down to the code level.

PROJECTS

- Applications of Machine Learning in Network Security** Aug 2021 - Present
Prof. Pinaki Mitra, Department of Computer Science and Engineering, IIT Guwahati
 – Research on latest encryption algorithms (like DRM, Watermarking) used by popular OTT platforms and explore resource constrained cryptography (with limited power, storage, processing) and incorporate techniques like PUF.
 – Identifying vulnerabilities in the encryption algorithms and developing proof of concepts for these vulnerabilities.
- CodeForces Crawler** July 2020
Coding Club, IIT Guwahati Website | Github
 – Developed a Django website which gives a detailed analysis of user performance and contributions on codeforces website in the form of various graphs, pie charts and heat maps using Codeforces API.
 – Key features include Comparison Page and Feedback Page where the devs get notified via mail for every entry.
- Year Book Portal** Mar 2020
SAIL (Student Alumni Interaction Linkage), IIT Guwahati. Github
 – Developed a web portal for final year students of IIT Guwahati to share their memories, write testimonials, vote for different awards given to students of their batch and a leaderboard to maintain students with most testimonials.
 – The portal has Office365 login and was made with Django (Python) using PostgreSQL database.
- Alumni Meet 2020** Mar 2020
SAIL (Student Alumni Interaction Linkage), IIT Guwahati Github
 – Made the website for Student Alumni Interaction Linkage of IIT Guwahati. Used front end technologies like HTML, CSS, and Bootstrap to embed PDF's and YouTube videos along with responsive elements.

TECHNICAL SKILLS

- Programming Languages:** C, C++, Python*
- Web Technologies:** Django, PHP, HTML, CSS, JavaScript*, React*
- Miscellaneous:** MySQL, Git, Android Development*

* Elementary proficiency

KEY COURSES TAKEN

- Data Structures and Algorithms
- Operating Systems
- Software Engineering
- Computer Architecture and Organization
- Design and Analysis Of Algorithms
- Computer Networks
- Database Management Systems
- Formal Languages, Automata Theory and Computation

POSITION OF RESPONSIBILITY

- General Coordinator, SAIL, IIT Guwahati** Dec 2020 - Present
 – Lead a team of **web operations** executives to build a platform which connects Alumni and current students.
 – Supervised the development of a new SAIL website and upgradation of the existing Yearbook portal.

ACHIEVEMENTS

- JEE Advanced 2018:** All India Rank **1907** among 0.15 million candidates.
- JEE Mains 2018:** All India Rank **3555** among 1.5 million candidates.

EXTRA-CURRICULARS

- Spardha (Inter Hostel Sports Competition) 2020:** Won Gold medal in *Hockey*.
- Executive, Public Relations And Branding, Alcheringa 2020:** Worked under Transport team during Alcheringa'20 and Ideated few events for Alcheringa'20.
- City representative, Technothlon 2019:** Conducted Technothlon Prelims smoothly in Visakhapatnam City.



Gadipally Pavan Preetham Reddy

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech	Indian Institute of Technology Guwahati	6.99	2018 - Present
Senior Secondary	Board of Intermediate Education, Telangana	97.8%	2018
Secondary	Board of Secondary Education, Telangana	9.7	2016

PROJECTS

• Network Security

Ongoing

Dr. Pinaki Mitra, Associate Professor, Department of CSE, IIT Guwahati

- Understanding and implementing encryption algorithms, such as Advanced Encryption Standard (AES) or Data Encryption Standard (DES) 256 and key exchange mechanisms used in the intercepted internet traffic.

• Job Portal

May 2021

Group Project

git.io/JucOI

- Developed a Django based application that acts as a channel for recruiters and applicants, where a recruiter can post a job, and an applicant can apply for a job.
- The status of an application can be tracked by the applicants. Key features include registration followed by email verification, adding multiple job profiles for recruiters, job search for applicants and editable profiles.

• Code Crawler

July 2020

Group Project

git.io/JJ6cp

- Graphical Interface that displays the ongoing and upcoming contests in Codeforces and Codechef using APIs.
- The users of codeforces can visualize their performance in detail in the form of various pie charts, graphs and heat maps. User's data is abstracted using Codeforces API. Key features of this website include contest calendar and day wise count of user submissions.

• Movie Catalogue

Sept 2021

Personal Project

git.io/JuMqp

- Built a web application where a user can see all the information of a movie, such as the description of the movie and its rating.
- Used TMDB API for data collection. Users can filter movies by genre and can watch trailers and clips.

TECHNICAL SKILLS

- **Programming:** C, C++, Python*
- **Web Technologies:** HTML, CSS, Django, Javascript*
- **Database Management:** MySQL
- **Operating Systems:** Windows, Linux*

* Elementary proficiency

KEY COURSES

- | | |
|--|---|
| • Algorithms and Data Structures | • Database Management Systems |
| • Operating Systems | • Computer Networks |
| • Design and Analysis of Algorithms | • Software Engineering |
| • Computer Organisation and Architecture | • Probability Theory and Random Processes |

ACHIEVEMENTS

- **JEE Advanced, 2018**, Secured All India Rank **552** among 0.15 million students.
- **JEE Mains, 2018**, Secured All India Rank **642** among 1.2 million students.
- **KVPY, 2017**, Obtained the National Research Fellowship by securing a position in **top 1%** in SX stream.

EXTRA CURRICULARS

- **Spardha, Inter Hostel Sports Meet:** Secured third position in Volleyball, 2019 & 2020.
- **Manthan, Inter Hostel Cultural Meet:** Participated in Group Dance, 2019.
- **City Representative, Technothlon'19:** Conducted preliminary round in Siddipet, Telangana.
- **Guwahati Half Marathon, Techniche'19:** Volunteered at ground level execution of North East's largest half marathon.



Jaya Prakash Reddy

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Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech.	IIT, Guwahati	8.33 (Current)	2018 - Present
Senior Secondary	BIEAP	98.3%	2018
Secondary	BSEAP	10.0	2016

Experience

• Amazon

SDE Intern - Seller Fullfillment and Tech

Bangalore, India

May 2021 - July 2021

- **International Expansion** - Extended Seller Performance Notification service to MENA (Arab Emirates, Saudi Arabia, Egypt) marketplaces from IN (India) marketplace.
- Developed a script that retrieves active sellers list enrolled in EasyShip Program of particular Marketplace by making Rest API calls. Achieved a throughput of 5000 records/sec using multithreading.

Projects

• Weak Encryption Identification

Ongoing

Bachelor's Thesis Project, Prof. Pinaki Mitra

- Identifying weak encryption techniques being used by various OTT service providers including those providing video conferencing solutions.

• CodeCrawler

July 2020

Coding Club Project

<https://git.io/JJRVA>

- Graphical interface to display the upcoming contests in codeforces and CodeChef. The users of codeforces can visualize their performance in detail. Key features of this website include piecharts of users submissions and day-wise count of user submissions. It was developed using codeforces API.

• File Sharing

Mar 2020

Personal Project

<https://git.io/JJ8VR>

- A Django-based online application where users can share files easily. Users can organise the files by adding new folders and sub folders.
- Multiple files and folders can be uploaded and downloaded as zip files and the folder structure is preserved when uploading and downloading the folders.

• Yearbook

Jan 2020

SAIL project

<https://git.io/JJiuF>

- Developed a web portal for final year students of IIT Guwahati to share their memories, write testimonials and vote for different awards given to students of their batch.
- The portal has Office365 login and was made with Django (Python) using PostgreSQL database.

Technical Skills

- Programming Languages: C++, C, Java*
- Web Technologies: Django, HTML, Bootstrap, Flutter
- Database management: MySQL
- Miscellaneous: Git
- Operating Systems: Windows, Linux

* Elementary Proficiency

Key courses taken

- | | |
|--|------------------------------------|
| • Data Structures and Algorithms | • Computer Networks |
| • Software Engineering Theory and Laboratory | • Operating Systems and Laboratory |
| • Database Management Systems and Laboratory | • System Software Laboratory |

Achievements and Extracurriculars

- **Codeforces: Max Rating - 1789 (Expert)** Profile
- **Codechef: Max Rating - 2061 (5-Star)** Profile
 - Secured 27th rank globally among 3.5k participants in July Lunch time 2021 Div-2
 - Secured 12th rank globally among 6k participants in February Lunch time 2021 Div-3
- **JEE - Advanced 2018: AIR 480**
- **Samsung Fellowship:** Received Samsung Fellowship for the year 2021-22 to conduct translational research

Positions of Responsibility

- **Web Coordinator, SAIL IITG** May 2020 - present
 - Developed web portals for SAIL IITG and lead the Yearbook project.
 - Lead the web operations team of 5 executives for the year 2021.



Harshal Sharma

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. Major	Indian Institute of Technology, Guwahati	8.40 (Current)	2018-Present
Senior Secondary	CBSE Board	92.4%	2018
Secondary	CBSE Board	10	2016

EXPERIENCE

- Cisco Systems (India) Private Limited** May 2021 - July 2021
Technical Undergraduate Intern Bangalore
 - Upgraded the pre-existing software Cisco CONP by integrating it with **Kubernetes** and **Hazelcast** distributed caching under the mentor-ship of Manager Satyajit Swain.
 - Designed a presentation and answered questions regarding the project and experienced the industry culture while working remotely with peers.

PROJECTS

- Placement Portal App** March 2020 - April 2020
CSEA, IIT Guwahati <https://git.io/JJ6c1>
 - Developed a Mobile Application on Android Studio using **Java** and **Google Firebase** for supporting placements on Campus which in coordination with Placement Cell can help students and companies to reach each other.
 - Application include Profile Updation, Brochure Upload and Download, applying for internships and jobs and shortlisting students for interview.
- Food App** July 2020
Internshala Trainings Project <https://git.io/JJ68j>
 - Developed a Mobile Application using **Kotlin** to provide a new platform to order food items from various restaurants.
 - Application include home page with option to sort restaurants, favourites stored in local Database; accessed using **SQLite**, login history saved in Shared Preferences file, order history, FAQs, Restaurant's Menu, Cart, Profile Updation; all accessed via **API Calls** to Internshala Database.
- VLSID-2021 Web Design** August 2020
Under the Supervision of Dr. John Jose <http://embeddedandvlsidesignconference.org/>
 - Developed the Web Portal using **Node.js** for the 34th International Conference of VLSI Design and the 20th International Conference on Embedded Design that held in IITG in January 2021.
 - Provides stakeholders and policy makers to get informed about the conference through variouslinks provided int the portal.

TECHNICAL SKILLS

- Programming :** C++, Python, C, Java, Kotlin, Bash, Make*
- Web Technologies :** Node.js, React, Django*, HTML, CSS, Javascript, BootStrap, Vis.js*
- Database management :** MySQL, Google Firebase, MongoDB*
- Miscellaneous :** Android programming, Git, Xilinx, Arduino IDE, LateX
- Operating Systems :** Windows, Linux

* Elementary proficiency

ACHIEVEMENTS

- Joint Entrance Examination - Advanced 2018 :** Secured All India Rank **463** among 1.2 million candidates.
- Summer Internship 2021 :** Selected for summer internship at **Cisco**
- FlipKart GRiD-2020 :** Received certificate of Participation and clearing Round-1 with Team: Brute_Force.
- Hackerrank :** Achieved **6 stars** in Problem Solving, and Gold Level in C++ Proficiency (Handle : harshaljj1000).
- Inter-Hostel Competition-Kriti'18 :** Bagged 1st position for Burnout Competition with Barak Hostel Team.

KEY COURSES TAKEN

- | | |
|--|---|
| • Data Structures and Algorithms(Theory and Lab) | • Software Engineering |
| • Database Management(Theory and Lab) | • Design And Analysis of Algorithms |
| • Probability Theory and Random Processes | • Computer Architecture and Organization |
| • Computer Networks | • Formal Languages, Automata Theory and Computation |
| • Discrete Mathematics | • Elementary Number Theory and Algebra |

POSITIONS OF RESPONSIBILITY

- Core Team Member, VLSI Design Web Team :**
Core team member in designing Web Portal for VLSID 2021 which held in IITG.

EXTRACURRICULAR

- Internshala Trainings :** Successfully completed training on Android App Development-July 2020.
- Event Organiser, Alcheringa'19 :** Successfully organised various informal events including an attempt to break world record for most hand prints on the wall.
- Dance :** Secured 2nd position in Group Dance in **Inter-Hostel Competition-Manthan 2019** with Barak Hostel.
- Sports :** Table Tennis, Badminton, Swimming
- Music :** Guitar



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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech.	Indian Institute of Technology, Guwahati	8.77 (Current)	2018-Present
Senior Secondary	CBSE Board	96.2%	2018
Secondary	CBSE Board	95.0%	2016

EXPERIENCE

- Goldman Sachs** June - July 2021
Bengaluru
Summer Analyst, FICC Macro Strats Team
 ⇒ Enhanced **production model** for pricing and risk management of spread options by formulating **local correlation copula** model. Calibrated **skew parameters** for the model to be able to **match** market observed prices.
 ⇒ Benchmarked against existing model and obtained **comparable results** in terms of various market indicators. The time and memory taken by the model was lesser as compared to the existing model.

PROJECTS

- Parquet Converter** Aug - Sept 2021
git.io/JEQs4
Personal Project
 ⇒ Designed and implemented a **CLI** in Java to **convert CSV** and **MySQL** data into **Apache Parquet** file format and to split the dataset into multiple files based on various parameters.
 ⇒ Conversion involved generating an **Apache Avro schema** for the input, converting each row into an Avro record and routing the record to the desired destination file. Also built support for **large datasets(>RAM size)**.
- Anonymous Counselling Portal** Nov 2019 - Feb 2020
git.io/JeJTh
Students' Web Committee , IIT Guwahati
 ⇒ Developed a **web** based platform for anonymous counselling using **Django** and **Ajax** for students and counsellors.
 ⇒ Added features like **real-time chatting**, **user session** management and **queue** management on FCFS basis.
- Academic Management System** Jan 2020
git.io/JJclc
Team Project
 ⇒ Developed a web based portal in **Django** for improving the learning experience and enabling better communication.
 ⇒ Worked on features involving routine academic operations like **grading**, **assignment workflow**, **attendance**, etc.
- Two Pass Assembler** Feb 2021
git.io/JEQsk
Dr. Pinaki Mitra, Associate Professor, Dept. of CSE, IIT Guwahati
 ⇒ Implemented a two pass assembler and linking loader for **SIC/XE machine** architecture in C++.
 ⇒ The assembler supports literals, expressions, etc. and further generates modification, define and refer records.

TECHNICAL SKILLS

- Programming:** C, C++, Python, Java*, JavaScript*
- Databases:** MySQL, Firebase
- Miscellaneous:** Apache Parquet, Git, Django
- Operating Systems:** Windows, Linux*

* Elementary proficiency

KEY COURSES TAKEN

- | | |
|--------------------------------------|--|
| • Data Structures (Theory and Lab) | • Software Engineering (Theory and Lab) |
| • Algorithms | • Computer Networks |
| • Databases (Theory and Lab) | • Computer Organisation and Architecture |
| • Operating Systems (Theory and Lab) | • Machine Learning |

ACHIEVEMENTS

- Uber She++ 2020:** Placed amongst **top 50** female candidates all over India through coding hackathon.
- Flipkart Grid 2.0 Hackathon:** Qualified for **level 3** being in **top 20** from IIT Guwahati
- Google KickStart 2021:** Secured **Global Rank 977** in Round E.
- JEE Advanced 2018:** Secured AIR **1256** (99.16 percentile) among 0.15 million candidates.
- JEE Mains 2018:** Secured AIR **2710** (99.77 percentile) among 1.2 million candidates.

EXTRACURRICULARS

- Participated in **contests** like Microsoft CodeFunDo++, Google Code Jam and Google Hash Code, Google KickStart.
- Actively Participated in contests held on **Codeforces**. (Handle: **HarryPotter9**, Max Rating: **1613**).
- Volunteered in the **Technothon** module in the technical festival of IIT Guwahati.
- Currently **mentoring** five juniors as a part of Saathi Counselling Club, IIT Guwahati.