



Vatsal Jain

Roll No.:210101110

B.Tech - Computer Science and Engineering

B.Tech Duration - 2021-2025

Indian Institute Of Technology, Guwahati

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Github | Website

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. Major	Indian Institute of Technology, Guwahati	8.24 (5 semesters)	2021-Present
Senior Secondary	CBSE Board	97.2%	2021
Secondary	ICSE Board	96.3%	2019

PROJECTS

- Photogram - Social Media Web App** May 2023 - Jul. 2023
Group Project - Computer Science and Engineering Association, IIT Guwahati
Github
– Developed a Instagram inspired social media web application using **Django**, with **SQLite** database.
– Worked on implementing different models and views for efficient functionalities.
– Users can follow/unfollow other users, add posts, like, comment, reply on other's posts, and chat with each other.
- Election Service API** May 2023
Personal Project
Github
– Developed a **REST API** for election services using **Go-lang**, and used **Gin** framework for scalable routing.
– Implemented **JWT Authentication** and secured it using **Authentication Middleware**, with **PostgreSQL** as database.
– Voters can create and update their details, candidates can link themselves to different constituencies and only authorized election officers can manipulate constituency details.
- WhereToGo - Travel Guide** Mar. 2023 - Apr. 2023
Personal Project
Github
– Developed a **ReactJS** based travel companion website using **Travel Advisor API** and user interface using **MaterialUI**.
– Used **Axios** to fetch data for hotels, restaurants, and attractions using **Google Maps API**, and the data is displayed based on user's current location.
– Users can filter the search based on ratings. Data is displayed on separate cards, and on the map at exact locations.
- Other Projects** Jun. 2023 - Apr. 2024
Relevant coursework and personal projects
Github
– **Scheduling in Edge-Cloud System** ☞ : A C++ solution for optimized job processing with distributed data access.
– **Community-Based Local Services Platform** ☞ : A platform for booking different services.
– **Insertion Sort Visualiser** ☞ : Built an animated representation illustrating the Insertion Sort algorithm's steps.
– **Election-Management System** ☞ : A management portal for hosting elections.

TECHNICAL SKILLS

- Programming & Web-Development:** C/C++, Javascript*, Python*, HTML, CSS, ReactJS*, Django*
- Backend Technologies & Databases:** NodeJS, Go-lang*, MongoDB*, MySQL
- Miscellaneous:** Figma*, Git* * Elementary proficiency

KEY COURSES TAKEN

- Computer Science:** Software Engineering(with lab), Computer Networks(with lab), Operating Systems(with lab), Data structures & Algorithms(with lab), High Performance Computing, Database Management Systems(with lab), System Software Laboratory, Discrete Mathematics, Automata theory, Computer Architecture & Organization
- Mathematics:** Optimization, Linear Algebra, Probability Theory & Random Processes, Number Theory & Algebra

ACHIEVEMENTS

- Codeforces**, Achieved a maximum rating of **1487 (Specialist)** on Codeforces. handle: vatsaljain
– Secured **Global Rank 548** among 30,000+ participants in Codeforces Round 942
- Codechef**, Achieved a maximum rating of **1858 (Four star)** on Codechef. handle: vatsuu
– Secured **Global Rank 55** among 25,000+ participants in Starters 119
– Secured **Global Rank 45** among 25,000+ participants in Starters 122
- All India Rank 519**, Joint Entrance Examination Advanced, among 0.15 million shortlisted candidates 2021
- All India Rank 760**, Joint Entrance Examination Mains, among 1.1 million candidates 2021
- KVPY SX**, Selected for the National research fellowship scholarship by securing an **All India Rank 863**. 2021
- BITSAT**, BITS Pilani Entrance Exam, obtained a score of **382/450**. 2021

POSITIONS OF RESPONSIBILITY & EXTRACURRICULARS

- Coordinator**, Coding Club, IIT Guwahati Jun. 2022 - Apr 2023
- Senior Executive**, Entrepreneurship Cell, IIT Guwahati Jun. 2022 - Apr 2023
- Student Mentor**, Mentored first year students under the CSEA mentorship program. 2022-Present
- Silver Medal in Cricket**, Spardha, Inter-Hostel Sports Competition, IIT Guwahati 2024
- Organizer**, Techniche, Annual Techno-management festival, IIT Guwahati. 2022
- Hackstack**, Completed a 3-week UI/UX Essentials workshop under Students Web Committee. Certificate