



Vatsal Jain

Roll No.:210101110

B.Tech - Computer Science and Engineering

B.Tech Duration - 2021-2025

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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	8.09 (Current)	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.
- **Notes Manager** Jun. 2023 - Jul. 2023
Personal Project Github
 - Worked on **MERN** stack based personal notebook website, and **React Context API** for effective data management.
 - Implemented **CRUD** functionality on the notes, and authentication using **JSON Web Token**.
 - Used different React hooks for storing data across renders, and executing side effects on data change.
- **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.

TECHNICAL SKILLS

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

* Elementary proficiency

KEY COURSES TAKEN

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

POSITIONS OF RESPONSIBILITY

- **Coordinator**, Coding Club, IIT Guwahati Jun. 2022 - Apr 2023
- **Senior Executive**, Entrepreneurship Cell, IIT Guwahati Jun. 2022 - Apr 2023

ACHIEVEMENTS

- **Codechef, December Long Challenge 2022**, Secured a Global Rank of 883 among 10000+ participants 2022
- **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

EXTRACURRICULARS

- **Student Mentor**, Mentored first year students under the CSEA mentorship program. 2022-Present
- **Organizer**, Techniche, Annual Techno-management festival, IIT Guwahati. 2022
- **Hackstack**, Completed a 3-week UI/UX Essentials workshop under Students Web Committee. Certificate