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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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. Major	Indian Institute of Technology, Guwahati	8.18 (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 functionalites.
  – 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 seperate 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 **1425 (Specialist)** on Codeforces. *handle: vatsaljain*
- **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*