

ARYAN VERMA

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Education

M.Tech Computer Science and Engineering

International Institute of Information Technology – CGPA: 8.59

2023 – present

Hyderabad, Telangana

B.Tech Computer Science and Engineering Spc in AI and ML

Vellore Institute of Technology – CGPA: 8.36

2019 – 2023

Bhopal, Madhya Pradesh

Experience

IIT Delhi

Mobile App Developer

May 2023 – July 2023

Delhi

- Developed a scalable mobile app for building audits using **Flutter** and **Firestore**, implementing core functionalities such as user authentication, real-time data syncing.
- Engineered the client-side architecture, delivering a responsive and intuitive interface that improved user engagement and efficiency during field audits.
- Integrated **Google Maps API** for location tagging and **Firestore**-powered dynamic questionnaires to enable customized condition assessments for building features (e.g., lifts, parking).
- Collaborated with a cross-functional team on database schema design and utilized **Git** for version control, ensuring seamless feature integration and maintaining code quality.

Projects

🔗 Scribble Party (Node.js, React, Socket.io, PostgreSQL)

July 2024

- Developed a **real-time collaborative drawing application** enabling users to share a canvas, join drawing sessions, and communicate through an integrated chat system.
- Leveraged **WebSocket communication** using **Socket.io** for instant updates in drawing and messaging across multiple users.
- Implemented a **PostgreSQL-backed database schema** for storing session data and user interactions, ensuring efficient data persistence and retrieval.

🔗 PeerTorrent (C++, Socket Programming, MultiThreading, SHA Hashing)

October 2023

- Designed and implemented a **peer to peer distributed file sharing system** inspired by the **BitTorrent** protocol, enabling efficient sharing and downloading of files within user-defined groups.
- Built a centralized **tracker system** for managing client information, file availability, and peer communication.
- Implemented **parallel downloading** with a custom piece selection algorithm.
- Developed features for **user account management** (registration, login) and **group administration**, ensuring secure and seamless user interactions.

🔗 POSIX Shell (C++, System Calls, MultiThreading)

March 2024

- Engineered a fully functional **POSIX-compliant shell** in C++, supporting **built-in commands** (cd, ls, pwd), **process management** (foreground, background), and **signal handling**.
- Implemented advanced features such as **I/O redirection** and multi-stage **pipeline processing**, enabling efficient execution of complex command chains.
- Developed a custom **pinfo command** for retrieving and displaying process-specific details, enhancing process monitoring capabilities.

Technical Skills

Languages: C++, Python, JavaScript, C, Bash Scripting, SQL

Frameworks/Technologies: ExpressJS, NodeJS, ReactJS, PostgreSQL, PyTorch

Achievements

- Scored in the **top 1.15 percent** in GATE CS 2023 with a percentile of **98.86** and All India Rank **860**.
- **Dean's List Awardee** for academic excellence in both semesters of the academic year 2023-2024.
- Achieved the **Knight** rank on LeetCode, with a peak rating of **1866**.

Extracurricular

- **Teaching Assistant for Data Structures and Algorithms (Monsoon 2024):** Mentored over **130 students**, conducted weekly coding contests, and developed a **script** 🔗 to automate performance data analysis from **HackerRank**.
- Organized a large-scale **Model United Nations** conference in Navi Mumbai with **700+ attendees**, fostering global awareness, leadership, and debate skills through meticulously planned events and workshops.
- **Execution Committee Member, VITBMUN (VIT Bhopal Model United Nations):** Managed end-to-end execution of the annual Model United Nations event for two consecutive years, driving participation and logistics.