

VAIBHAV RAJ

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EDUCATION

Vellore Institute of Technology

Bhopal, India

Computer Science & Engineering; GPA: 8.22

October 2022 - Ongoing

TECHNICAL SKILLS

- **Languages:** Python, SQL, Java, C++, HTML, JavaScript, CSS
- **Frameworks:** React, Next.js, Node.js
- **Databases:** MongoDB, MySQL
- **Tools & Platforms:** Git, GitHub, AWS, VS Code

PROJECTS

Dev-Finder [GitHub] [Live Demo] [Video]

- Built tag-based room discovery app with **Next.js**, **NeonDB**, **Drizzle ORM**, supporting 15+ concurrent users across technology categories.
- Enabled real-time peer-to-peer screen sharing using **GetStream React SDK**, achieving 95% uptime with sub-100ms latency.
- Secured authentication with **NextAuth.js** and **JWT tokens**, managing sessions for 50+ registered developers.

Chess Master [GitHub] [Video] [Live Demo]

- Developed multiplayer chess platform using **Socket.IO**, **Node.js**, and **Express**, handling real-time gameplay with 99% event reliability.
- Implemented move validation using **chess.js** library with spectator mode, supporting 100+ concurrent games with real-time sync.
- Built move history navigation with session persistence, maintaining game state across browser refreshes with 95% retention rate.
- Added back/forward navigation of move history and seamless session resumption using persistent client state.

Google Docs Clone [GitHub] [Video] [Live Demo]

- Built collaborative text editor using **React**, **Quill.js**, and **Socket.IO**, supporting real-time editing for 15+ users.
- Implemented document persistence with **MongoDB**, 500ms auto-save achieving 99% data integrity.
- Developed **Express/Node.js REST APIs** with **CRUD** operations, handling 500+ daily requests with sub-200ms response time.

CERTIFICATIONS

Google Advanced Data Analytics

September 2025

- Completed a comprehensive program covering data, cleaning, visualization, statistical analysis, and machine learning using Python and SQL for real-world business scenarios.

Data Analysis with Python (IBM)

June 2025

- Gained hands-on experience in data manipulation, visualization, and statistical modeling using python libraries like Pandas, NumPy, and Matplotlib.

Data Analytics Job Simulation (Deloitte)

June 2025

- Simulated a real-world consulting project involving data cleaning, analysis, and client reporting using Excel and PowerPoint, reflecting Deloitte's approach to data-driven decision-making.

EXTRA-CURRICULARS

Soft Skills: Communication, Teamwork, Leadership, Problem-solving, Conflict-Management