

Ayush Gupta

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Education

Vellore Institute of Technology, Bhopal

Bachelor of Technology in Computer Science and Engineering

May 2026

CGPA: 8.35/10

Projects

Nagarsaathi - Civic Complaint Portal for Every Ward

GitHub | Apr 2025

Tools: React.js, Node.js, Express.js, MongoDB, Python (Scikit-learn), JWT

- Built a full-stack QR-enabled web platform for ward-wise complaint registration, featuring real-time tracking and an admin dashboard for status updates and analytics.
- Trained a ML model for predictive security analysis, detecting approximately 5-7 potentially severe application security vulnerabilities based on trend analysis within the first quarter.
- Implemented a seamless QR scan complaint submission process, reducing the average submission time by 70% and increasing user engagement within the ward by providing a simplified experience.

Signet - Secure User Authentication System

GitHub | Sept 2025

Tools: React.js, Node.js, Express.js, MongoDB, JWT, bcrypt.js, Nodemailer

- Developed a secure and reusable MERN stack authentication module, providing end-to-end user lifecycle management from registration to secure session control.
- Leveraged JSON Web Tokens (JWT) and bcrypt.js to implement a robust security layer for stateless user sessions and hashing passwords, ensuring all user credentials are encrypted at-rest.
- Orchestrated an automated email verification and password reset system using Nodemailer, delivering secure OTPs to enhance account security and user trust.

Tunetrail - Music Streaming Platform

GitHub | Nov 2024

Tools: React.js, Node.js, Express.js, MongoDB, Tailwind CSS

- Built a full-stack music streaming platform serving a library of 1,000+ hypothetical songs, with features for playlist creation, queue management, and audio streaming.
- Created responsive and intuitive user interface with React.js and Tailwind CSS, ensuring a seamless listening experience across desktop and mobile devices.
- Constructed a secure RESTful API with Node.js and Express.js to manage user authentication, playlist data, and efficient audio file streaming to the client.

Technical Skills

Programming Languages: Java (Advanced), JavaScript (Intermediate), Python (Basic), C++ (Basic), HTML/CSS

Frameworks & Libraries: React.js, Node.js, Express.js, Tailwind CSS

Databases: MongoDB, MySQL

Tools: Git, GitHub, Postman, VS Code, Figma, Canva

Certifications

Data Structures and Algorithms in Java | Apna College

Sept 2024

MongoDB NodeJs Developer Path for SmartBridge | MongoDB University

Apr 2025

Full Stack Developer MERN | SmartBridge

Apr 2025

Co-Curricular Activities

Coding Platform Achievements

GeeksForGeeks Profile

- Achieved an institute rank of 457 by solving 400+ problems in Java on GFG, earning a coding score of 1190.
- Consistently solved 200+ problems on GeeksForGeeks & LeetCode as a part of 100 Days of Code challenge.

Extracurricular Activities

Core Member, Design Team – AMS Student Chapter, VIT Bhopal

Apr 2024 – Aug 2024

- Collaborated with 10+ designers to execute team strategy and delivered 20+ unique graphic assets to reinforce the organization's visual identity.
- Contributed to an estimated 50% increase in club recognition and event engagement across various platforms.