ANSHUMAN SINGH

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EDUCATION

VELLORE INSTITUTE OF TECHNOLOGY, BHOPAL Bhopal, MP
Bachelor of Technology (Expected May 2026)
Major in Computer Science; Specialization in Cloud Computing
Cumulative GPA: 8.72/10.0
Relevant Coursework: Operating Systems; OOP's; Computer Network; Data Structures and Algorithms

TECHNICAL SKILLS

- **Languages & Frameworks:** C++(C++11/14/17), JavaScript, HTML/CSS, Node.js, Express.js
- **Systems & C++ Tools:** ASIO / Boost.ASIO, OpenSSL, Pthreads, Socket Programming, Multithreading, Concurrency
- **Databases:** MySQL, MongoDB
- **Cloud & DevOps Tools:** AWS (EC2, S3, Elastic Beanstalk, Lambda), Docker
- **Tools & Platforms:** GitHub, Postman, Linux

PROJECTS

ChatApp – Secure C++ Chat Application. Sept 2025
C++, ASIO, OpenSSL, QT5, Pthreads
- Implemented a secure, multi-client chat system with an SSL/TLS server and both console + optional Qt GUI clients.
- Built server to handle concurrent clients with thread-safe connection handling and message broadcast using ASIO and pthreads
- Ensured end-to-end encryption and certificate-based authentication using OpenSSL; provided easy certificate generation and secure server deployment scripts.

DEVTUBE – Media Platform Jan 2025
Node.js, Express.js, EJS (Embedded JavaScript), MongoDB
- Built a full-stack media-sharing platform with 5+ frontend pages and features like user registration, login, profile, and video playback using EJS and Express.js.
- Integrated Google OAuth 2.0 using Passport.js and session management via Express-Session for secure authentication.
- Engineered 10+ RESTful API routes with Express.js and MongoDB for user, video, and comment data operations, using Multer for uploads and Bunny CDN + ImageKit for optimized delivery.

RIDE RENTAL – Cross Platform React Native App Dec 2024
React Native, Tailwind CSS , Express.js, MongoDB Atlas, JWT
- Developed a mobile app with 8+ modular components using React Native and Tailwind CSS for responsive design on Android and iOS.
- Designed role-based access and JWT-secured login for riders using Express.js and MongoDB Atlas.
- Implemented real-time cycle booking logic and availability tracking with backend API integration across 3 primary app screens (Home, Book Ride, History).

CERTIFICATIONS & ACHIEVEMENT

DEVOPS FUNDAMENTALS - IBM
- Completed a DevOps Fundamentals course with IBM Developer Skills Network, covering core DevOps principles and practices

INDUSTRY CONCLAVE – Finalist
- Selected as one of top 5 finalist teams out of 50+ participants for presenting an innovative tech solution at a university-level industry-focused competition

ADDITIONAL/ COMPETITIVE PROGRAMMING
- Solved 450+ DSA problems on LeetCode across arrays, DP, graphs, trees, and advanced STL usage.
- LeetCode Contest Rating: 1728, ranked in the top 11.11% globally.
- Active on Codeforces with a current rating of 1183.