

GAURAV GUPTA

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LinkedIn

GitHub

Portfolio

EDUCATION

Vellore Institute of Technology

B.Tech Computer Science & Engineering **CGPA: 8.73**

2022 – 2026

Bhopal, MP, India

Translam Academy International School

Class XII Percentage: 96%

2020 – 2021

Meerut, UP, India

Translam Academy International School

Class X Percentage: 93.4%

2018 – 2019

Meerut, UP, India

PROJECTS

Snappy | React.js, Node.js, Express.js, MongoDB, Socket.io, Docker, AWS, JWT

Aug 2023 – Sept 2023

- Engineered a scalable real-time chat application using React, Node.js, Express.js, and Socket.io, supporting **150+ concurrent users** with **sub-0.5s message delivery (200–300ms latency)** under heavy load through optimized WebSocket handling.
- Implemented secure authentication and role-based access control using **JWT**, protecting REST APIs and WebSocket channels with HTTPS, input validation, token refresh, and session management.
- Containerized and deployed the application using **Docker**, **AWS ECS**, and **Netlify**, configuring Nginx with SSL/TLS and CI/CD via GitHub Actions, reducing deployment and setup time by **70%** and supporting a public beta with **50 active users**.
- Optimized socket reconnection logic and MongoDB queries using indexing, eliminating race conditions and reducing response time by **30%** under peak load while monitoring logs and application metrics.
- GitHub:** <https://github.com/gaaurav03/Snappy-Chat-Application>

Singitronic | Next.js, React.js, Node.js, MySQL, HTML5, CSS3

Sept 2024 – Dec 2024

- Engineered a full-stack electronics eCommerce platform using Next.js (React) and Node.js, delivering a custom-designed, mobile-responsive interface with support for **100+ product SKUs**.
- Implemented core eCommerce functionality including product catalog, shopping cart, secure user authentication, and order processing using a **MySQL** backend, achieving **0.5s average API response** and high availability.
- Built a comprehensive admin dashboard for real-time product management, order tracking, and business analytics, streamlining administrative workflows by **70%** through intuitive React components and RESTful APIs.
- Optimized application performance and maintainability through modular architecture and software engineering best practices, resulting in a scalable and production-ready codebase.
- GitHub:** <https://github.com/gaaurav03/Singitronic>

TECHNICAL SKILLS

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

Frameworks / Technologies: React.js, Node.js, Express.js, REST APIs, Socket.IO, Bootstrap, MongoDB, MySQL

Cloud & DevOps: AWS (EC2, Lambda, S3), Docker

Tools & Platforms: Git, GitHub, Postman, VS Code, MCP

Core Competencies: Data Structures & Algorithms, OS, CN, DBMS, System Design Basics, REST API Architecture, CI/CD

EXTRACURRICULAR

ACHIEVEMENTS

- Solved 300+ DSA problems across LeetCode and GeeksforGeeks using C++.
- Participated in Adobe India Hackathon (Round 1), completing competitive MCQ and coding assessments.
- Shortlisted for UST D3CODE 2025 interview round, competing among top national teams.
- Earned 50-Day and 100-Day Coding Streak Badges on LeetCode for consistent DSA practice.

ACTIVITIES

- Volunteered at adVITYa Techno-Cultural Fest, coordinating event operations, logistics, and on-ground execution.
- Core Team Member, Microsoft Technical Club, leading and collaborating on technical workshops, coding sessions, and community initiatives.

CERTIFICATIONS

- MongoDB Certified Associate Developer
- Oracle Generative AI Developer
- NPTEL Cloud Computing – IIT Kharagpur
- Bits and Bytes of Computer Networking – Google (Coursera)