

Shubham Gupta

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EDUCATION

Vellore Institute of Technology, Chennai
B.Tech in Computer Science & Engineering (AI & ML)
CGPA: 8.3/10

Chennai, India
2023 – 2027

Maheshwari Public School, Jaipur
Class XII (CBSE) – 80%
Class X (CBSE) – 89%

Jaipur, India
2022 – 2023
2020 – 2021

EXPERIENCE

Samsung PRISM — *Team Lead – Research Intern* Remote Aug 2025 – Present
• Leading a 4-person team in developing a secure **XML-to-Jetpack Compose** migration tool, reducing UI modernization efforts by approximately 40%.

• Engineered static analysis rules in **Kotlin** to preemptively detect insecure XML patterns (e.g., hardcoded secrets) prior to conversion.

• Conducting bi-weekly code reviews and enforcing secure coding guidelines, resulting in zero critical vulnerabilities in the beta release.

Bluestock Fintech — *Software Development Intern* Remote May 2025 – July 2025
• Re-architected the **PostgreSQL** database schema, optimizing indexing strategies which reduced API query latency by over **80%**.

• Developed end-to-end IPO management workflows using **Django REST Framework** and **ReactJS**, serving 1,000+ active users.

• Implemented Redis caching for real-time stock data fetching, improving dashboard load times by 200ms.

PROJECTS

BloodConnection — *ReactJS, Python (Flask), Scikit-Learn, PostgreSQL* Live Demo
• Developed an AI-powered donor platform using **KNN algorithms** to match donors with recipients based on blood type and location proximity.

• Integrated intelligent inventory forecasting using **Pandas** and **NumPy** to predict shortages during high-demand periods.

• Implemented real-time emergency routing alerts using WebSocket and ExpressJS.

OrderPlease — *NextJS, TypeScript, AuthJS, Tailwind CSS* GitHub Link
• Built a digital mess management system with wallet functionality, replacing manual ledger entries for 500+ students.

• Secured user transactions using **AuthJS** (JWT) and enforced strict role-based access control (RBAC) for admins and students.

TECHNICAL SKILLS

- **Languages:** Java, Python, Kotlin, C++, JavaScript (ES6+), SQL
- **AI/ML & Data Science:** TensorFlow, Scikit-learn, Pandas, NumPy, Matplotlib, Data Preprocessing, Model Evaluation
- **Web Technologies:** ReactJS, NextJS, Node.js, Express, HTML5, CSS3, Tailwind CSS, Redux Toolkit
- **Databases & Cloud:** PostgreSQL, MongoDB, Firebase, Google Cloud Platform (GCP)
- **Developer Tools:** Git/GitHub, Docker, Postman, Linux (Bash), Android Studio, VS Code

ACHIEVEMENTS

- **Champion Milestone, College Rank 1** – Google Cloud Arcade 2024 (Demonstrated cloud proficiency).
- **World Rank 31, College Rank 1** – CodeChef Weekly Contest 159 (3-Star Coder).
- **Problem Solving** – Solved 500+ Data Structures and Algorithms problems across various platforms.

CODING PROFILES

LeetCode — CodeChef — Kaggle