

# V Srivatsan

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## EDUCATION

**Vellore Institute of Technology, Chennai**

**CGPA: 9.26 / 10.00**

*Bachelor of Technology in Computer Science, Specialization in AI and Robotics*

*2024 – 2028*

## TECHNICAL SKILLS

**Programming Languages:** Python, JavaScript / TypeScript, Dart, C++, Go, SQL

**Backend and APIs:** FastAPI, Django, Node.js, REST APIs, WebSockets, Authentication, Authorization

**Frontend:** React.js, Next.js, Tailwind CSS, Material UI, Bootstrap

**Mobile:** Flutter, Android (Kotlin), MVVM, Offline-first architectures

**Databases:** PostgreSQL, PostGIS, MongoDB, MySQL, Redis / Valkey, SQLite, Firebase

**DevOps and Infrastructure:** Docker, Linux, Git, CI/CD, Cloud Deployment

## EXPERIENCE

**Application Developer (Contract / Freelance)**

Aug 2024 – Present

*Multiple Clients*

*Remote*

- Delivered 5+ production-grade mobile and web applications for clients across finance, operations, and internal tooling domains, serving ~20–50 internal users and up to 100–1000 external users per application.
- Replaced manual ad-hoc workflows with automated systems improving processing time by 80%, reducing report generation and inventory management from 1.5-2 hours to just 1-2 minutes.
- Optimized offline-first data handling and on-device computation, heavily reducing network usage while preserving application reliability.

**Application Developer Intern**

Jun 2025 – Sep 2025

*Shanti Electricals*

*Remote*

- Developed a Flutter-based financial product analysis application focused on investment evaluation.
- Implemented core financial computation modules including ROI and IRR calculations, equity analysis, and automated report generation.

## PROJECTS

**DisasterNet** | *Flutter, Mesh Networking, BLE, PostgreSQL, PostGIS, FastAPI*

Apr 2025 – Sep 2025

- Developed a disaster response platform enabling coordination without internet connectivity.
- Implemented an offline-first, peer-to-peer BLE mesh networking architecture
- Tested on 4–5 real devices physically separated by ~10 meters.

**MarketFlow** | *React.js, FastAPI, PostgreSQL, Redis, Docker, Distributed Systems*

Aug 2025 – Dec 2025

- Architected a real-time, multi-user stock market trading simulation platform, stress-tested during a live event with 100+ concurrent users.
- Refactored the system into a two-service distributed architecture: a stateless REST service handling client-facing logic and a containerized Engine service owning simulation state, communicating over Redis Pub/Sub.
- Implemented FastChannels for WebSocket broadcast optimization, reducing per-connection overhead and enabling efficient fan-out to all connected clients.

## LEADERSHIP & ACHIEVEMENTS

**Executive Board Member and Technical Lead**

Chennai, Tamil Nadu

*Entrepreneurship Cell, Vellore Institute of Technology, Chennai*

*Apr 2025 – Present*

- Led the technical team end-to-end, overseeing all engineering decisions and delivery across the club's initiatives.
- Built and deployed event platforms and websites serving 100+ participants per event, including a live stock market trading simulation stress-tested with 100+ concurrent users.

**Bronze Medalist - Indian National Olympiad of Informatics (INOI)**

Hyderabad, Telangana

*Indian Association for Research in Computing Science*

*Aug 2023*

- Cleared ZCO to qualify for INOI, competing among the top performers nationally in algorithms and data structures.