Sathwik Gampa

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Education

VNR Vignana Jyothi Institute of Engineering and Technology — Hyderabad, India
Bachelor of Technology in Information Technology (CGPA: 8.6/10) — *Expected Grad: 2028*

- **Relevant Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Database Management Systems, Operating Systems, Computer Networks, Software Engineering

Turito Junior College — Hyderabad, India
Intermediate (MPC) — 934/1000 (93.4%) — *2024*

SPR School of Excellence — Kamareddy, Telangana, India
Secondary School Certificate (SSC) — 9.2/10 GPA — *2022*

Technical Skills

Languages: Java (Proficient), Python, SQL, C, JavaScript, TypeScript, Solidity
Web & Frameworks: React.js, Next.js, Node.js, Express.js, FastAPI, Socket.IO, Tailwind CSS
Databases & Cloud: PostgreSQL, MySQL, SQLite, MongoDB, Redis, Firebase
AI & Developer Tools: Google ADK, Multi-Agent Systems, JSoup/Web Scraping, Git, GitHub, MetaMask
Core CS Fundamentals: Data Structures & Algorithms, Object-Oriented Programming (OOP), DBMS, Operating Systems, Computer Networks

Projects

Real-Time Transit & Attendance Telemetry System | *React.js, Node.js, Express, Socket.IO, Leaflet.js, Redis, SQLite* Apr 2026

- Accomplished real-time transit telemetry tracking as measured by sub-**15ms** query execution times and smooth 60fps rendering across **20+** active vehicle feeds, by architecting a low-latency WebSocket pipeline and Redis caching.
- Architected a pub/sub telemetry pipeline using Node.js and Socket.IO, reducing client DOM re-render overhead by **35%** during continuous spatial location updates.
- Designed relational schemas in SQLite with indexed query routes to support dynamic student attendance logging and automated route analytics.

FounderHQ – Multi-Agent Startup Operating System | *Python, Google ADK, Gemini API, FastAPI, Next.js* Aug 2026

- Accomplished multi-agent workspace orchestration as measured by **<100ms** initial response streaming latency and a **25%** reduction in API inference overhead, by engineering custom DAG execution flows and specialized sub-agents using Python, Google ADK, and FastAPI.
- Built autonomous sub-agents for Finance, Legal, and HR operations while optimizing context window utilization across asynchronous LLM executions.
- Developed streaming REST endpoints using FastAPI and Next.js to deliver real-time agent execution states and response chunks directly to the UI.

Decentralized Freelance Payment & Escrow Platform | *Solidity, Ethereum Sepolia, Ethers.js, MetaMask, React.js* Jun 2026

- Accomplished trustless peer-to-peer milestone payments as measured by **100%** automated fund settlement upon client approval and zero central authority fees, by architecting Solidity smart contracts deployed on the Ethereum Sepolia Testnet.
- Engineered immutable escrow lifecycle state machines handling deposit, holding, dispute resolution, and automated payout execution.
- Integrated Ethers.js and MetaMask state synchronization with React.js to provide seamless web3 wallet authentication and real-time transaction tracking.

Achievements & Certifications

- **First Prize**, Breakpoint Case Study Competition (AI Integration & Analytical Modeling), Convargenz 2K26, VNR VJIET
- **Best Performer Award**, Cynx-YouthLink Hackathon – Built decentralized workflow solutions under 24-hour deadline
- **Top Performer Tier**, 36-Hour Inter-College Hackathon at CVR College of Engineering
- **Oracle Certified Generative AI Professional**, Oracle
- **Competitive Programming**, Active problem solver on LeetCode and CodeChef, focusing on Array manipulation, Two Pointers, Dynamic Programming, and Graph algorithms in Java