MANIKANTA PEDDI

Hyderabad, Telangana

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EDUCATION

Vellore Institute of Technology – Andhra Pradesh　　　　　Sept 2023 – June 2028
Integrated M.Tech in Software Engineering　　　　　*GPA: 9.19 / 10.0*

- **Coursework:** Software Design & Architecture, Computer Networks, Learning Algorithms, Operating Systems, Basics of Cloud Computing, Computational Theory

EXPERIENCE

Software Engineer　　　　　Hyderabad, India
Self-Directed Learning & Development　　　　　*Sept 2023 – Present*

- Developing full-stack and systems-oriented software with strong foundations in C++, Java, Python, and Linux internals.
- Designing scalable backend solutions by applying data structures and algorithms to optimize system performance.
- Implementing cloud-native deployment strategies using Docker, Kubernetes, and Red Hat OpenShift practices.

PROJECTS

SecureID Platform | Live Demo *(React.js, TypeScript, Firebase)*　　　　　Jul 2025 – Nov 2025

- Architected a secure, cloud-native identity verification system using **React.js, TypeScript, and Firebase**, implementing **RBAC** to strictly manage workflows between Users, Verifiers, and Admins.
- Engineered a serverless backend with **Cloud Functions** and **Firestore** listeners to achieve real-time synchronization of document status and automate transactional email notifications.

Nyayapath – AI-Powered Legal Assistance *(Python, React, NLP)*　　　　　Feb 2024 – Mar 2024

- Developed a multilingual platform integrating speech recognition, NLP, and RAG-based AI systems.
- Designed scalable backend logic using Python and ReactJS, aligned with IBM's cognitive business systems focus.

CADMS – Disaster Management Platform *(Blockchain, Docker)*

- Built a real-time system using blockchain, live data APIs, and cloud-based microservices for optimized disaster response.
- Integrated Dockerized services with simulated deployment pipelines inspired by IBM DevOps principles.

SKILLS

Languages: C++, Java, Python, TypeScript, JavaScript, HTML/CSS
Web Development: React.js, Node.js, REST APIs, Firebase, Tailwind CSS
Systems & Cloud: Linux, Basics of Cloud Computing
AI & Data: R, NumPy, Pandas, Scikit-learn, NLP, ASR, RAG
Tools: Git, VS Code, Android Studio, R Studio

ACHIEVEMENTS

- National Semi-Finalist – Flipkart GRiD 7.0 (2025)
- Top 10 Performer – Coding Ninjas Career Camp (June 2025)

INTERESTS

Systems Programming, Cloud Platforms, Docker, Kubernetes, DevOps, Artificial Intelligence, Hackathons