

VAKA PERI REDDY

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Objective

Detail-oriented software engineer with experience in IoT platforms, machine learning, and full-stack development. Passionate about smart infrastructure, predictive systems, and digital twins. Seeking to contribute to impactful research-oriented software products.

Professional Experience

Junior Software Engineer

Oct 2024 – Present

Smart City Living Lab @ IIIT Hyderabad

Hyderabad, India

- Designed and developed full-stack IoT applications for smart city infrastructures using MERN stack.
- Built scalable dashboards and analytics tools for real-time system monitoring.
- Integrated CI/CD pipelines using Docker and GitHub Actions for faster deployments.
- Contributed to research-based software development in collaboration with urban mission stakeholders.

Software Research Intern

Feb 2024 – Sep 2024

Smart City Living Lab @ IIIT Hyderabad

Hyderabad, India

- Worked in a collaborative R&D environment focused on urban innovation and real-time smart city systems.
- Contributed to IoT-driven research projects involving data acquisition, system integration, and platform development.
- Engaged with domain experts and researchers to translate urban infrastructure problems into scalable software solutions.

Skills

Technologies: Full Stack Development, Machine Learning, Data Analysis, DevOps

Programming Languages: Python, JavaScript, Go, SQL, HTML, CSS

Frameworks: FastAPI, ReactJS, Node.js, ExpressJS, Next.js, Chart.js, Beego, Echo

Databases: PostgreSQL, MySQL, MongoDB, Prometheus, InfluxDB

Tools: Tableau, Grafana, Git, Docker, Jenkins, postman, Locust, Jmeter, Material-UI, Figma

Other Skills: Problem Solving, Leadership, Communication, Critical Thinking

Projects

City IoT Operating Platform (ctOP)

Architect & Full Stack Developer

- Developed a scalable platform wrapping oneM2M-compliant IoT infrastructure for standardization, monitoring, and automation.
- Integrated predictive maintenance recommendations and system-wide health checks.
- Implemented load balancing for horizontal scalability and high system availability.

Digital Twin for Water Networks

Research & UI Developer

- Designed an interactive frontend for water flow simulation based on real sensor data.
- Collaborated with backend team for live integration and error handling.
- Worked on the real-time field actuation engines of digital twin.

Substation Monitoring Dashboard (BYPL)

Full Stack Developer

- Built real-time monitoring dashboard for energy substations using ReactJS and Tableau.
- Worked on both backend services and UI layers to ensure live data sync.

Job Board Platform

Full Stack Developer

- Developed MERN-based job platform with role-based access, listings, and application tracking.

Sentiment Analysis Tool	Team Lead
– Built a machine learning model to predict public sentiment and preferences using supervised learning.	
Conversational Chatbot	Developer
– Built and deployed a chatbot using Google Dialogflow to automate user support queries.	

Certifications

FMML (Foundations of Modern Machine Learning), IIIT Hyderabad — Apr–Aug 2023

Positions of Responsibility

Student Leader, Global Coding Club (GCC) at KIET College — Led and organized all student-driven technical initiatives.

Research Interests

- Digital Twins
- Machine Learning and Neural Networks
- 3D Development and Real-Time Visualizations

Education

Bachelor of Technology in Computer Science	2020 – 2024
Kakinada Institute of Engineering and Technology (KIET)	CGPA: 7.50
Intermediate (MPC)	2018 – 2020
Sri Saraswathi Junior College	GPA: 9.09
SSC	2018
Sri Saraswathi High School	GPA: 9.8