

# Hari Kiran Ventrapragada

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## Professional Summary

Aspiring Software Engineer seeking to apply strong skills in Full-Stack Development, AI, and DevOps to build innovative and efficient software solutions. Experienced in Generative AI, Agentic AI, and MERN stack development, with proficiency in Python, Java, and JavaScript. Passionate about creating intelligent systems and contributing to impactful research and development.

## Education

### MVGR College of Engineering, Vizianagaram

B.Tech in Information Technology, CGPA: 7.63 | Expected Graduation: 2026

### Narayana Junior College, Vizianagaram

Intermediate, Percentage: 77.7% | 2020–2022

## Experience

### OmniquAI Pvt Ltd, Bengaluru

AI DevOps Intern

May 2025 – July 2025

- Automated interview workflows by designing and deploying an **MCP-based agent orchestration system** with **resume parsing and NLP-driven assessments**, reducing manual screening effort by **60%**.
- Improved release efficiency by containerizing services with **Docker**, establishing **CI/CD pipelines**, and implementing **Playwright UI automation**.

AI Research Intern

Dec 2024 – Jan 2025

- Built a scalable **Knowledge Graph microservice** for semantic querying in **RAG systems**.
- Enhanced LLM performance by **20%** through advanced **prompt engineering techniques** (Chain-of-Thought, One-shot, Few-shot prompting).
- Conducted **KPI analysis** on flagship products and deployed **Prometheus metrics** for real-time observability, improving feature adoption by **15%**.

## Projects

### Docker Automation Dashboard

ReactJS, Express.js, Dockerode

Automated Docker container/image management via a ReactJS UI. Implemented RESTful APIs with Dockerode integration to streamline operations.

### Intelligent Customer Support System (ICSS)

Python, Flask, FAISS, Google Gemini

Built an AI-driven chatbot leveraging vector search and LLMs. Developed Flask APIs for chat processing and PDF handling.

### Receipt OCR System

FastAPI, Tesseract, MongoDB, React Native

Built an end-to-end OCR solution to digitize receipts by extracting merchant, date, and total fields using Tesseract and spaCy. Developed a FastAPI backend with MongoDB storage and an Expo React Native client for mobile receipt uploads.

## Technical Skills

**Programming:** Python, Java, C++, JavaScript, SQL, Cypher

**Frameworks:** MERN (MongoDB, Express.js, React.js, Node.js), React Native, Flask, FastAPI

**DevOps & Tools:** Docker, Git, Gitea, Jira, Prometheus, CI/CD

**AI/ML:** RAG, GraphRAG, Agentic AI, NLP, Vector DBs (FAISS, Neo4j)

## Achievements

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**Yuva Sangam Youth Exchange Program** | Government of India, Arunachal Pradesh (Jan 2023)  
Selected for interstate youth exchange under Ek Bharat Shreshtha Bharat. Engaged in cross-cultural learning, networking, and development initiatives.