

# Hari Kiran Ventrapragada

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## Professional Summary

Aspiring Software Engineer with hands-on experience in Generative AI, Agentic AI, DevOps, and Full-Stack Development. Skilled in Python, Java, JavaScript, and MERN stack. Passionate about building intelligent systems and contributing to innovative R&D.

## 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

## Experience

### OmniqAI Pvt Ltd, Bengaluru

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**.

### OmniqAI Pvt Ltd, Bengaluru

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), leading to more reliable AI responses.
- Conducted **KPI analysis** on flagship products (**AI360, Chanakya**) and deployed **Prometheus metrics** for real-time observability, enabling data-driven decisions that improved 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

**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.

## Career Interests

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Software Development|AI/ML|Full-Stack Engineering|DevOps|Product Engineering|R&D in Generative AI