

OMPRAKASH PANDA

📞 +91-7978675747 ✉️ omprakash11273@gmail.com 🔗 linkedin.com/in/omprakash-panda 🌐 github.com/Omprakash-p06

OBJECTIVE

Information Science and Engineering student with hands-on experience in AI-powered applications, full-stack software, and automated development workflows. Seeking an AI Engineer, Software Developer, or DevOps Engineer role to apply problem-solving and emerging AI technologies to build production-ready solutions.

EXPERIENCE

Unisys Jan 2026 – Jul 2027

Industry Research Project · Campus Connect Program

- Led development of a hybrid RAG pipeline (FAISS HNSW vector indexing, Neo4j knowledge graph, cross-encoder reranking) achieving 85% top-3 retrieval accuracy across 12,347 enterprise incidents – contributing 89% of repository commits across a 5-person team.
- Implemented Corrective RAG (CRAG) confidence routing, hardware-aware CUDA/CPU inference, and local-first LLM integration; system delivered a $2.57\times$ reduction in mean incident resolution time across 3 operational centers.
- Redesigned frontend using Radix UI with AMOLED dark mode and SSE-based real-time streaming; led end-to-end integration and co-authored a technical whitepaper on the architecture.

HashVault Systems

Mar 2026 – Jul 2026

Software Engineering Intern (Remote)

- Built a distributed runtime orchestration service managing Docker container lifecycle, provisioning, and resource cleanup with Redis state persistence.
- Designed REST API endpoints with authentication, asynchronous request handling, TTL-based expiry, and graceful failure handling.
- Developed testing suite and production deployment configurations.

PROJECTS

helix-cli – Local-First AI Agent Framework ↗

- Local AI automation stack with tool-calling, hardware-aware optimization, and an OpenAI-compatible REST API endpoint.
- Enables fully offline, privacy-first AI agent workflows with no dependency on external cloud services.

KwestUp Mobile – Local-First Productivity App ↗

- React Native (Expo) Android app with Markdown notes vault, task/birthday tracking, and 4 native home-screen widgets.
- Integrated offline on-device LLM inference via llama.cpp with GitHub Actions CI/CD and a Dockerized development environment.

MetaRadar – Pharmaceutical Competitive Intelligence Platform ↗

- Full-stack enterprise system (Novo Nordisk GBS Hackathon 2026): 11-node LangGraph pipeline, 8-source autonomous ingestion, PostgreSQL + pgvector HNSW indexing, Redis locking.
- FastAPI backend, Pydantic v2, 186 automated tests; built zero-shot NLI contradiction detection and multi-source evidence synthesis for rare disease intelligence.

ACHIEVEMENTS

Nagathon Finalist – IISc Bengaluru (project: NagRaksha)

Participant, Samsung InnovateX hackathon (project: Guardio)

Participant, GenAI Hack2Skill hackathon

SKILLS

Languages: Go, Python, JavaScript, C

Web & Mobile: HTML5, CSS, React, React Native, Expo

AI/LLM: RAG, CRAG, FAISS, LLM orchestration, on-device inference (llama.cpp), tool-calling, OpenAI-compatible API design

Backend & Infrastructure: Docker, Container Orchestration, Redis, REST API Design, Neo4j

DevOps & Tools: Git, GitHub, GitHub Actions (CI/CD), VS Code

EDUCATION

Bachelor of Engineering (B.E.), Information Science and Engineering

2024 – 2027

MS Ramaiah Institute of Technology, Bangalore

Diploma in Electrical and Electronics Engineering

2021 – 2024

PVP Polytechnic, Bangalore

CBSE (Central Board of Secondary Education)

2021

Sri Jnanakshi Vidyaniketan, Bangalore