A SAI BHARATH

Software Engineer | AI Systems | Backend Engineering

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SUMMARY

Software Engineer currently working at NCR Atleos building AI agent systems and LLM backends. I have shipped production systems on Azure OpenAI and AWS, built Graph RAG pipelines with Neo4j, and deployed projects with real users. I work across Python, FastAPI, LangChain, Node.js, and React/Next.js.

SKILLS

AI & LLM Systems: LLM agent orchestration, multi-step agentic workflows, Graph RAG, LangChain, prompt engineering, tool-calling, retrieval grading, confidence scoring, fallback logic, vector embeddings

Backend & APIs: Python, Node.js, FastAPI, Flask, Express, REST APIs, microservices

Frontend: React, Next.js, TypeScript, TailwindCSS, admin dashboards, internal tooling UI

Cloud & DevOps: Azure OpenAI, AWS EC2/S3, Docker, GitHub Actions, CI/CD pipelines, Vercel

Data & Storage: PostgreSQL, MongoDB, Prisma ORM, Neo4j knowledge graphs, vector stores

EXPERIENCE

NCR Atleos Feb 2025 – Present

Software Developer Intern (Full-Time) — Hyderabad, India

- Built AI agent systems using Graph RAG and LangChain for internal developer tooling — cut manual lookup time for developers by surfacing answers through multi-step reasoning over company knowledge bases.
- Engineered LLM services on Azure OpenAI with prompt pipelines, retrieval validation, and failure-handling logic — made internal Q&A workflows reliable enough for production use.
- Set up GitHub Actions CI/CD pipelines that removed manual deployment steps and kept dev and staging environments consistent across the team.
- Containerised AI microservices with Docker and worked with the DevOps team on monitoring and production reliability.

PROJECTS

Dockwave — Agentic Document Intelligence Platform GitHub | Live Demo

Next.js, Python, FastAPI, LangChain, Neo4j, PostgreSQL, Prisma, Azure OpenAI (GPT-4o-mini), AWS S3, Vercel

- Built a document platform where users upload files in folder structures — the system extracts entities, builds a Neo4j knowledge graph, and lets users query across their entire workspace with context-aware answers.
- Wrote a retrieval grading engine that generates 3–4 search queries per question, runs 6–7 retrieval iterations, scores each result by confidence and relevance, and picks the best answer automatically.
- Used Neo4j graph relationships to connect information across documents — catches connections that plain vector search misses.
- Built multi-agent workflows with fallback handling and a full UI covering document ingestion, task tracking, and AI chat with workspace, folder, and file level context switching.

Personal Investor — AI Finance & Portfolio Tracker GitHub | Live Demo | *In Development*

Next.js, Python, LangChain, Gmail API, REST APIs, Vercel

- Building a personal finance app that tracks expenses and reads credit card data from Gmail — an LLM layer picks the right financial tool based on what the user asks, no fixed query structure needed.
- Working on adding stock data, spending pattern analysis, and a portfolio view with AI-generated insights based on real market news.

PhisX — Real-Time Phishing Detection Chrome Web Store — 56 Active Users

Python, Flask, React, TypeScript, AWS EC2, Docker

- Trained and deployed an ML model with 95%+ phishing detection accuracy — served via a live REST API on AWS EC2 with Docker, picked up 56 real users on the Chrome Web Store.
- Built the Chrome extension UI that calls the live API and shows users real-time phishing alerts while browsing.

EDUCATION

Keshav Memorial Engineering College, Osmania University 2021 – 2025

B.E. in Computer Science — CGPA: 7.5

ACHIEVEMENTS

G-HACK 2023 Hackathon — Gitam University Dec 2023