

Manoj Hankare

Software Engineer – Generative AI & Backend — AWS & Azure Certified

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Professional Summary

Backend engineer with 3+ years of experience building production-grade Generative AI and cloud-native systems across healthcare, invoicing, and enterprise data domains. Hands-on with LLM APIs (Gemini, OpenAI, AWS Bedrock), LangChain/LangGraph orchestration, RAG pipelines, and vector databases (pgvector, MongoDB). Experienced in deploying containerised services on AWS and Azure. AWS Certified Cloud Practitioner and Azure Developer Associate.

Technical Skills

- **Languages:** Python, SQL, JavaScript, Java
- **Backend:** Flask, Django, FastAPI, REST APIs, ETL pipelines, Apache Airflow, Serverless (AWS Lambda)
- **Generative AI:** OpenAI, Gemini, AWS Bedrock (RAG/Knowledge Base), LangChain, LangGraph, prompt engineering, embeddings, vector search, VoiceAI
- **Vector Databases:** pgvector (PostgreSQL), MongoDB, FAISS
- **Cloud & DevOps:** AWS (S3, Lambda, API Gateway, CloudWatch, IAM, boto3), Azure (VM, AI Services), Docker, Kubernetes (K8s), GitHub Actions, Gunicorn, Nginx
- **Databases:** PostgreSQL, MySQL, MongoDB, SQLAlchemy ORM
- **Frontend:** React, Next.js (basic)

Professional Experience

Software Engineer

Jan 2024 – Present

Vkraft Software Services, Hyderabad

- Built LLM-powered backend services using LangChain and LangGraph for orchestrating multi-step AI workflows; integrated Gemini, OpenAI, and AWS Bedrock in production.
- Designed and deployed RAG pipelines with pgvector and MongoDB for semantic search and context-aware document retrieval across enterprise knowledge bases.
- Built event-driven REST APIs and serverless workflows on AWS (S3, Lambda, API Gateway); containerised and deployed services using Docker and Kubernetes.
- Contributed R&D on AI Voice, LLM tooling, and fine-tuning workflows; prototyped enhancements that shaped product architecture decisions.
- Managed CI/CD pipelines via GitHub Actions; designed PostgreSQL schemas with SQLAlchemy ORM and ensured data quality through validation pipelines.
- Wrote technical documentation and unit tests; participated in code reviews across Agile delivery cycles.

Software Engineer Intern

Jun 2022 – Mar 2023

Acute Learning, Mumbai

- Built backend and frontend features using Python, Java, and JavaScript; integrated third-party APIs and managed MySQL databases.
- Delivered assigned features on schedule within Agile team workflows.

Key Projects

Enterprise AI Studio Platform

Vkraft Software Services

Python, FastAPI, LangChain, AWS Bedrock (RAG), pgvector, S3, CloudWatch, React

- Orchestrated multi-step LLM workflows using LangChain and LangGraph; implemented RAG pipelines with AWS Bedrock Knowledge Base and pgvector for intelligent document search.

- Built backend microservices for event-driven AI-assisted enterprise workflows handling audio/video sessions and LLM-powered analysis.
- Developed React monitoring dashboard with CloudWatch integration for real-time operational visibility.

EzyInvoice – AI-Powered Invoice Processing Platform

Vkraft Software Services

Python, Flask, Django, PostgreSQL, pgvector, Gemini API, AWS S3, Azure Linux VM, Docker, React

- Integrated Gemini LLM with custom prompt engineering to extract structured fields (vendor, amount, dates) from unstructured PDFs and scanned images; used pgvector for similarity-based duplicate detection.
- Built REST APIs for invoice ingestion, validation, and ETL processing; designed data quality pipeline ensuring accuracy of extracted data.
- Deployed on Azure Linux VM via Docker, Gunicorn, and Nginx; built React dashboard for invoice tracking and processing status.

Certifications

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| • Microsoft Certified: Azure AI-900 – AI Fundamentals | <i>2025</i> |
| • Microsoft Certified: Azure Developer Associate | <i>2024</i> |
| • AWS Certified Cloud Practitioner | <i>2024</i> |
| • Microsoft Certified: Azure Fundamentals (AZ-900) | <i>2024</i> |
| • Capgemini Certification Program – Java Full Stack Development | <i>2023</i> |

Education

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|---|--------------------|
| M.Sc. Computer Science | <i>2019 – 2021</i> |
| Dr. Babasaheb Ambedkar Marathwada University, Ch.Sambhajinagar, MH, India | |
| B.Sc. Computer Science | <i>2016 – 2019</i> |
| SBES College of Science, Ch.Sambhajinagar, MH, India | |