

Mahammad Rafi

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Professional Summary: Certified Kubernetes Administrator and aspiring MLOps engineer with hands-on experience in deploying ML/ LLM-powered applications and building CI/CD pipelines using Docker, K8s, and MLflow across AWS Sagemaker, Azure AI/ML Studios, and GCP VertexAI. Strong foundation in AI/ML algorithms, PyTorch and cloud orchestration for scalable AI solutions.

AI/ML PROJECTS

- Developed and scaled AI agents for personalized recommendations (LangChain, LangGraph, GPT-4) using Docker and Kubernetes, with FluxCD for continuous delivery. [GitHub](#)
- Implemented a deployment pipeline for a ReAct multi-agent workflow automation system (LangGraph, SQL, FAISS) using Docker and Kubernetes. [GitHub](#)
- Developed a scalable RAG app with GPT-4, ChromaDb for drug adverse reaction analysis [GitHub](#)

RELEVANT EXPERIENCE

Healthcare IT Consultant | CitiusTech | New Jersey, United States May 2017 - Sep 2024

- Modernized the client's ETL infrastructure by replacing legacy SQL jobs with Azure Data Factory pipelines, streamlining data sharing between the insurer, hospitals, and external vendors
- Consolidated claims data from disparate systems into a centralized Data Hub to support scalable data processing, improve data governance, and enable insights across client's business units
- Represented the client in New Mexico HHS's All-Payer Claims Database (APCD) implementation initiative and led efforts to ensure our system was the 1st to be compliant and synchronized with HHS
- Served as the POC for Independent Software Vendors (ISVs), building automated data pipelines to support onboarding and initial data integration and reduced delivery lead time from 45 days to 2 weeks
- Collaborated with technical, legal, security, and implementation teams to align data infrastructure with CMS regulatory requirements, enhancing data governance and ensuring audit-readiness
- Spearheaded Agile project delivery with cross-functional client teams (engineering, business, legal), facilitating the efficient delivery of high-quality solutions through effective execution

CERTIFICATIONS

- **CKA: Certified Kubernetes Admin** | **CKAD: Certified Kubernetes App Developer** Feb 2025
- Azure AI Engineer Associate | Azure Data Scientist Associate: Microsoft Oct 2024
- Machine Learning Engineer: University of Toronto Aug 2024

TECHNICAL SKILLS

Programming & Scripting: Python, Unix Shell, SQL, Flask
LLM Ecosystem: LangChain, LangGraph, HuggingFace, OpenAI, Ray, vLLM
MLOps & Deployment: MLflow, Kubeflow Kubernetes, Docker, Jenkins

EDUCATION

MSIM(AI), University of Washington, Seattle, USA

Jun 2025