Abishek kc

abhishekkc701@gmail.com | 3343727920 | kcabishek.com | linkedin.com/in/abishekkc701

Education

Troy University, BS in Computer Science (World's Honors Scholarship)
- **Technical Involvement:** AWS Community Member, Active on LeetCode
- **Coursework:** Distributed Systems, Cloud Computing, Machine Learning, Data Structures & Algorithms

Certification

Oracle Cloud Infrastructure 2025 Generative AI Professional	October 2025
AWS Certified Solutions Architect – Associate	August 2024
AWS Certified Cloud Practitioner	July 2024

Technologies

Cloud/Infra: AWS, GCP, Oracle Cloud (OCI), Azure, Kubernetes (GKE/EKS), Terraform, Helm, Argo CD, Docker .
ML/AI: LangChain, OpenAI API/Functions, RAG Architecture, Vector Databases, Agent Design, Foundation Model Test
Event-Driven/Messaging: SNS/SQS, Event-Driven Architecture, Asynchronous Processing, Message Queuing
Programming & Scripting: Python (AI/ML, Web/SRE Automation), JavaScript (Js/React), Bash, Linux/Unix, YAML.
Backend/DB: Postgres (SQL), NoSQL (DynamoDB/MongoDB), Microservices, Distributed Caching, Agile Ceremonies.
SRE/Systems: Networking/Distributed Systems, Client/Server Architecture, Cloudwatch, OpenTelemetry, SLOs/SLEs.

Industry Experience

Site Reliability Engineer/Cloud Engineer – Motion Industries — May-August 2025
- Developed an automated **CI/CD pipeline** for a LangChain-based AI agent on-prem GKE using **Azure DevOps, Helm, Argo CD, Kubernetes, and Docker**, with staged promotion from Feature → QA → Prod.
- Shipped **Fortune 200's** first AI agent, cutting Sales workflows 14→3 clicks in 12 days with a 35-member **Agile** team.
- Gained hands-on proficiency in **Networking/Distributed Systems (GCP/on-prem)** by developing and deploying holistic service visibility, resulting in a **40%** reduction in MTTR and increasing team efficiency.
- **Navigated project ambiguity** to define and document the AI agent blueprint, translating complex technical concepts into a focused architecture diagram for clear executive alignment and senior leader approval.

ML Infrastructure Engineer (Academic Project) – Supervised by Prof. Suman Kumar — August-Present 2025
- Built distributed backend infrastructure with Python, Kubernetes, and Docker handling 1K+ RPS with auto-scaling; implemented chaos engineering tests , reducing MTTR from 30min to <3min.
- Established reliability and monitoring practices with chaos engineering tests (pod failures, network issues), SLI/SLO tracking, and distributed tracing (Jaeger); reduced incident detection and recovery time from 30min to under 3min.
- Optimized PyTorch model deployment with GPU resource management and performance monitoring.

Projects

AI Cloud Infrastructure – Marketplace & Multi-Cloud Disaster Recovery — github.com/marketplace
- Engineered multi-cloud DR (AWS, Azure, GCP) with Terraform, achieving 70% faster failover (>1M requests/day).
- Developed AI Terraform validator using OpenAI API to detect security vulnerabilities, cost optimization(>15%).
- Built OOP systems for multi-cloud deployments, enhancing reliability and integrating SQL & NoSQL database.

Event-Driven Video Platform – Real-Time Processing & Cloud Automation — github.com/Rakube
- Built personal project exploring event-driven architecture with SNS/SQS for asynchronous video processing.
- Implemented microservices with Docker/ECS Fargate, distributed caching (Redis), and VPC networking.

Leadership Experience

Troy Hack 2024 MVP Special Award Winner — October 2024
- Led team of 3 building AI chatbot using LangChain and OpenAI API with RAG architecture, implementing semantic search over 10K+ academic documents with <200ms response time.