

Khalander S.

Cloud Engineer | Full Stack Developer

London, United Kingdom | khalandarsharief@yahoo.com | +44 7940598908 | [LinkedIn](#) | [GitHub](#)

Professional Summary

Cloud Engineer and Full-Stack Developer with over 3 years of experience delivering scalable, secure, and sustainable solutions across cloud infrastructure, backend systems, and frontend applications. MSc in Cloud Computing (Distinction) from the University of East London, with a strong foundation in AWS services, DevOps practices, and modern web technologies.

Areas of Expertise

- **Cloud Architecture & Optimization**
Design and management of scalable, cost-efficient AWS infrastructure (EC2, S3, RDS, Lambda, etc.) with a focus on carbon-aware deployments and multi-region resilience.
- **Infrastructure as Code (IaC)**
Automation with Terraform for modular, secure, and efficient infrastructure deployments aligned with DevSecOps best practices.
- **DevOps & CI/CD**
CI/CD pipeline setup using GitHub Actions and GitLab CI; containerization with Docker; real-time monitoring via CloudWatch and Grafana.
- **Full-Stack Development**
Experience with Node.js, Java, React, and Angular in building secure, API-driven applications frontend features.
- **Scripting & Automation**
Proficient in Python and Shell scripting for automation, reporting, and backend tasks.

Professional Experience

Cloud Engineer
Techzilla Solutions

September 2022 - August 2023

- **AWS Cloud Architecture:** Designed and deployed highly available, secure, and scalable AWS environments using EC2, Lambda, S3, VPC, RDS, and CloudWatch, supporting cloud-native application workloads and migrations.
- **Infrastructure as Code (IaC):** Automated multi-region infrastructure provisioning using Terraform, CloudFormation, and Python, reducing deployment time by 85% and enhancing system reliability.
- **CI/CD & DevOps Enablement:** Integrated Dockerized workflows into CI/CD pipelines using GitLab CI/CD and Jenkins, enabling faster deployments and consistent environments across stages.
- **Cost Optimization & Monitoring:** Implemented AWS Cost Explorer, created real-time monitoring dashboards, and automated resource scaling policies—cutting infrastructure costs by 30%.
- **Cloud Security & Compliance:** Enforced AWS security best practices, managing IAM roles, VPC security groups, NACLs, and encryption policies, ensuring alignment with compliance standards.
- **Disaster Recovery & Resilience:** Contributed to DR strategy by supporting automated backup workflows and ensuring resilient architecture across multi-region AWS environments.

Software Engineer
SM Netserv Technologies

September 2021 - May 2022

- **AWS Cloud Architecture:** Designed and implemented **multi-region AWS architectures** to enhance system **availability**, reduce latency, and support scalable deployments.
- **Serverless & Automation:** Built **serverless solutions** using **AWS Lambda** and integrated them into CI/CD workflows, accelerating deployment cycles by **20%**.
- **Disaster Recovery & Backup:** Developed robust **disaster recovery strategies**, cutting **recovery time objectives (RTO)** by **50%** through automated failover and backup mechanisms.
- **Infrastructure Optimization:** Optimized cloud resource usage across environments to improve system performance while maintaining cost-efficiency.
- **Cross-Team Collaboration:** Worked closely with cloud and DevOps teams to align infrastructure with security, availability, and compliance requirements.

Projects

Disaster Recovery & Cross-Cloud Migration Tool

- Developed a multi-cloud image backup and migration solution that automated VM discovery, backup, and cross-cloud raw image conversion across AWS, Azure, and GCP.
- Implemented customizable network and security reinstatement procedures to preserve security groups, route tables, and ACL configurations, reducing manual configuration errors.

Sustainable Cloud Operations: Automated Energy-Aware Deployment and Multi-Region Resource Management

- Integrated real-time energy data into AWS deployment strategies for sustainable region selection, effectively reducing carbon footprint.
- Automated multi-region EC2 replication using Terraform and Python, improving overall system latency by 40% and reducing deployment setup time significantly.
- Developed a real-time dashboard using ReactJS/NodeJS for monitoring energy metrics and deployment status.

Publications

Sustainable Cloud Resource Deployment: Integrating Real-Time Energy Data and Edge Continuum for Optimized Cloud Operations

2024 IEEE/ACM International Conference on Utility and Cloud Computing (UCC) · Nov 10, 2024

Education

Master of Science - Cloud Computing (Distinction), *University of East London, United Kingdom (2024)*
Bachelor of Technology - Computer Science, *HKBKCE, Bangalore, India (2021)*

Trainings & Events Attended

- AWS Solutions Architect (A Cloud Guru)
- Microsoft Azure Fundamentals (AZ-900)
- AWS Academic Graduate – AWS Cloud Foundation
- Tech Show London – Cloud Expo Europe (2024)
- Macquarie Bank – DevOps Meet