

Yuunus Mohamed *Software Engineer*

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📍 London

Summary

A Software Engineer with over 5 years of experience specializing in architecting and developing scalable, cloud-native applications. Expertise in building microservices-based systems with Python and Java, deployed on AWS using Docker and Kubernetes. Combines a strong development background with a deep understanding of CI/CD and Infrastructure as Code (Terraform) to deliver robust and maintainable software.

Professional Experience

09/2022 – Present
London

Software Engineer

M2A Media

- Architected and led the development of a cloud-native video processing platform using a microservices architecture, deploying services with Docker and Kubernetes to handle a 200% increase in streaming volume.
- Owned the end-to-end optimisation of media transcoding workflows by engineering serverless solutions with AWS Lambda and Python, which cut processing costs by 35% and boosted throughput by 50%.
- Automated content delivery network (CDN) integration, improving the global distribution of video content, and enhancing user experience.
- Developed a real-time analytics dashboard using React and Node.js, facilitating proactive monitoring of video streaming performance, and user engagement.
- Pioneered a major refactoring of a legacy **Python and Java** monolith into scalable microservices, improving code maintainability and reducing system-wide technical debt by 40%.
- Mentored two junior engineers and three interns on Agile best practices and advanced **Python** development, improving team velocity and fostering a culture of continuous learning.

06/2021 – 09/2022
London

DevOps Engineer

Zero Degrees Systems

- Led cloud migration initiatives for 12+ enterprise clients, successfully migrating on-premises infrastructure to AWS, Azure, and GCP with 99.9% uptime and 40% cost reduction.
- Designed and implemented CI/CD pipelines using Jenkins, GitLab CI, and AWS CodePipeline, reducing deployment time from 4 hours to 15 minutes and enabling daily releases for development teams.
- Built comprehensive monitoring and alerting systems using Prometheus, Grafana, and ELK stack, improving incident detection time by 85% and reducing MTTR from 2 hours to 20 minutes.
- Automated infrastructure provisioning with Terraform and Ansible across multi-cloud environments, managing 500+ servers and reducing manual deployment errors by 95%.
- Established security compliance frameworks and conducted infrastructure audits for SOC2 and ISO 27001 certifications, implementing automated security scanning and remediation processes that reduced vulnerability exposure by 70%.

05/2019 – 09/2020
London

Software Engineer Intern

M2A Media

- Contributed to the core video streaming service by developing new API endpoints in **Python** and writing comprehensive unit and integration tests, increasing code coverage for the module by 25%.

- Designed and implemented Infrastructure as Code (IaC) using Terraform, automating the provisioning and management of cloud resources.
- Assisted the DevOps team in maintaining CI/CD pipelines using **Jenkins** and **Docker**, helping to troubleshoot and resolve deployment issues for staging environments.
- Integrated monitoring and alerting tools (Prometheus, Grafana) to enhance system visibility and proactively address potential issues.
- Collaborated with senior engineers to debug and patch issues within the **React**-based monitoring dashboard, improving its stability and data accuracy.

Projects

2024	Infrastructure Migration & CI/CD Automation <i>M2A Media</i> <ul style="list-style-type: none">• Led AWS infrastructure migration with zero downtime.• Automated CI/CD pipelines, reducing deployment times by 50%.
2023	Real-Time Streaming Analytics Dashboard <i>M2A Media</i> <ul style="list-style-type: none">• Developed a real-time streaming analytics dashboard using React, Node.js, and AWS.• Improved monitoring by 15% through enhanced scalability and microservices architecture.
2020	Multilingual Auto-Translation Messaging App <i>City University London</i> <ul style="list-style-type: none">• Built a real-time multilingual messaging app using Python, Java, and NLP.• Developed a responsive UI with React and a secure backend with Node.js.

Skills



- **Languages:** Python, Java, SQL
- **Cloud & DevOps:** AWS, Kubernetes, Docker, Terraform, CI/CD (Jenkins), Prometheus, Grafana, Git
- **Web Development:** React, Node.js, API Design & Integration
- **Databases:** SQL, Database Design
- **Testing & Methodologies:** Unit & Integration Testing, Automated Testing, Agile (Scrum, Kanban)

Education

2021	BSc Computer Science <i>City University London</i> <ul style="list-style-type: none">• Developed a multilingual auto-translation messaging app for senior project, utilising algorithms, data structures, and software engineering principles• Applied agile methodologies to ensure responsiveness and reliability across languages and platforms• Integrated NLP and machine learning algorithms for accurate translation in collaboration with a diverse team• Presented project to faculty and industry experts, showcasing effective communication and technical proficiency• Gained experience in frontend development, creating an intuitive user interface for enhanced user experience
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Courses

Advanced Data Structures and Algorithms
Specialized course by MIT focusing on complex data structures and algorithm optimization.

Artificial Intelligence (AI) & Machine Learning (ML)

In-depth course exploring AI and ML concepts to build intelligent systems and derive data-driven insights.

AWS Professional Solutions Architect

Advanced training in architecting complex, highly available, and secure solutions on Amazon Web Services (AWS).

Hobbies and interests

I contribute to open-source projects, write tech blogs, and participate in hackathons to stay sharp. I enjoy running, hiking, and traveling to explore new cultures, and I love strategy board games for critical thinking.