

# M Jonah

Principal DevOps Engineer – Cloud & Machine Learning | Senior DevOps Architect - Cloud Services

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## 👤 PROFILE

As a Principal DevOps and Cloud Security Engineer with 13 years of experience, I lead the design, automation, and security of high-performance software delivery pipelines. I specialize in architecting scalable, resilient cloud infrastructures across AWS, Azure, and GCP, leveraging CI/CD, infrastructure as code (IaC), and advanced security practices. With deep expertise in Kubernetes, Terraform, and Ansible, I drive automation, reliability, and operational excellence. My background in MLOps, cloud networking, and IAM management enables seamless integration of AI-driven workloads. Passionate about building secure, automated systems, I mentor teams and shape best practices to accelerate innovation at scale.

## 🧠 SKILLS

### CI&CD Automation:

Jenkins, GitLab CI, Travis CI, Terraform, Kubernetes, Terragrunt

### Monitoring & Security:

Prometheus, Grafana, Elasticsearch

### Configuration Management:

Ansible, Terraform

### Machine Learning Operations:

Integration of CI/CD pipelines with ML models, Kubernetes for ML orchestration, Azure Databricks

### Cloud Platform:

AWS, Azure, Google Cloud Platform

### Cloud Services:

AWS (EC2, ECS, Fargate, EKS), Azure (Functions, SQL, Databricks), GCP

### Containers & Orchestration:

Docker, Kubernetes

### Programming Languages:

Python, Bash, SQL

### MLOps Practices:

Automated ML workflows, real-time monitoring of ML models, seamless ML model deployment.

## 👜 PROFESSIONAL EXPERIENCE

### Work Experience:

#### *Eventbrite (12/2020 – Present)*

##### *Principal DevOps Engineer – Cloud & Machine Learning*

- Led the upgrade and zero-downtime migration of critical Amazon RDS clusters, improving database performance for machine learning deployments focused on predictive event analytics.
- Designed and deployed a CI/CD pipeline using Terragrunt, automating the integration of machine learning models into production. This helped streamline the deployment of over 60 Java-based applications.
- Architected a scalable Platform as a Service (PaaS) that integrated machine learning services, enabling real-time event data processing and analytics.
- Collaborated closely with data scientists and DevOps teams, fostering a unified approach to MLOps and reducing the cycle time for deploying new models and applications
- Automated cloud infrastructure management using Terraform and Kubernetes, ensuring consistent deployments across environments

## ***MasterClass (10/2016 – 12/2020)***

### ***Senior Cloud DevOps Architect***

- Managed and optimized a large-scale Elasticsearch production cluster, using machine learning algorithms to automate data lifecycle management and enhance overall performance.
- Implemented GitOps practices for Kubernetes, automating CI/CD workflows and enabling seamless deployment of containerized applications in a cloud-native environment.
- Developed robust cloud security protocols by integrating advanced monitoring solutions, using machine learning for threat detection and prevention.
- Worked closely with the engineering team to implement automated security audits and vulnerability assessments, ensuring ongoing compliance with security standards.

## ***Intechnics (11/2011 – 10/2016)***

### ***DevOps Engineer – Cloud Operations***

- Led a team to migrate big data workloads to Microsoft Azure, leveraging Azure Databricks for optimized data processing and machine learning, delivering actionable insights for improved business decisions.
- Integrated machine learning workflows with cloud operations, automating data analysis and streamlining processes to enhance cloud infrastructure security.
- Developed secure cloud solutions tailored to client needs, ensuring compliance with industry security standards.
- Designed a cost-effective auto- scaling solution, reducing cloud costs by 25% and enhancing resource utilization to handle varying demands efficiently.

## **EDUCATION**

2007 – 2011

**Bachelor of Science in Computer Science**  
FAST UNIVERSITY (NUCES)

## **Personal Projects**

### ***Event Attendance Prediction System***

- Built a Python-based machine learning model to predict event attendance, utilizing historical event data and real-time analytics.
- Deployed the model using AWS Lambda and integrated it with an S3 storage pipeline, enabling real-time predictions for event organizers.

### ***Scalable Log Management with Elasticsearch***

- Developed a machine learning-based anomaly detection system using Elastic search to manage and analyze logs from distributed systems.
- Automated the detection and notification process using Python and Grafana, which helped in identifying system performance issues in real time.

### ***Kubernetes-based Video Streaming Optimization***

- Designed and implemented a Kubernetes-based video optimization system for a personal video-sharing platform, using Prometheus for real-time monitoring of video playback performance.
- Integrated Terraform for automated scaling of resources, ensuring optimal performance during peak times.