

Josh Menzies

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SUMMARY

Infrastructure Software Engineer specializing in building automated, observable, and developer-friendly cloud platforms on **AWS** and **Kubernetes**. Proficient in **Go** and **Python** for backend services, IaC tooling, and cloud SDK automation. Experienced designing scalable systems, improving platform reliability, and empowering engineering teams through software-defined infrastructure.

EXPERIENCE

Infrastructure Software Engineer

Nectar Services Corp

February 2024 - Present, Jericho NY

- Developed serverless data-masking services using **AWS Glue, Lambda, S3, Athena, and Macie**, sanitizing **1 TB + PostgreSQL** data and **cutting ETL time 40 %**.
- Architected a secure artifact-delivery platform (**API Gateway, S3, CloudFront, Cognito**) serving **500 + builds/month**, **reducing release cycles 35 %** and enforcing granular IAM RBAC.
- Instrumented and optimized observability for **EKS microservices** via **Datadog + OpenTelemetry**, cutting detection latency **40 %** and lowering recovery duration **25 %**.
- Implemented custom Datadog WAF with QA and security teams to block **XSS / SQLi**, reducing vulnerabilities **60 %** through automated trace-based actions.
- Standardized Terraform + GitLab CI/CD pipelines across 5 AWS accounts, **boosting provisioning 25 %** and **eliminating configuration drift**.
- Partnered with data and QA engineers to integrate **observability, compliance scanning, and cost metrics** directly into CI/CD workflows.

System Support Engineer

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November 2023 - February 2024, Jericho NY

- Automated Terraform + Python workflows across CI/CD, compute, and data pipelines, **accelerating deployments 15 %** and **cutting manual tickets 20 %**.
- Migrated legacy on-prem workloads to **AWS**, achieving **99.9 % uptime** and introducing automated health checks in Python.
- Enhanced CI/CD reliability and standardized IaC configs for cross-team environments.

PROJECT

AI Data Pipeline Automation

Jericho NY • August 2025 - Present

- Engineered a serverless, PII-compliant data pipeline leveraging **AWS Glue, Lambda, Athena, Macie, and SageMaker** to automate data preparation for AI experimentation and analytics, **reducing ETL runtime 40 %** and improving dataset integrity.
- Automated schema discovery and query validation with **Athena** and **Glue Crawlers**, ensuring **consistent data alignment** between environments; **optimized S3 storage** with lifecycle policies, **lowering cost 20 %**.
- Implemented Macie-based scans across **1 TB +** of PostgreSQL exports, **strengthening compliance posture**, improving **audit readiness**, and enabling secure access for downstream **data science and ML teams**.

Serverless Distribution Platform

Nectar Services Corp. • March 2025 - Present

- Designed and implemented a serverless distribution platform within a private VPC using **AWS Lambda, API Gateway, S3, CloudFront, and Route 53**, supporting both **private tenant** and **public artifact** releases; delivers **500 + artifacts monthly** and **shortens release cycles 35 %**.
- Integrated **Amazon Cognito** and **IAM RBAC** for secure, auditable access control, **reducing access tickets 25 %**, improving **traceability** via **Datadog metrics**, and strengthening internal security posture.
- Automated infrastructure provisioning with **CloudFormation templates** and **Python Lambdas**, cutting manual setup **60 %**, boosting deployment reliability across environments, and standardizing release workflows for multiple engineering teams.
- Collaborated with QA and DevOps teams to embed **monitoring and alerting hooks** into deployment pipelines, ensuring **real-time visibility** and smoother post-release validation.

EDUCATION

B.S. Computer Engineering (minor Computer Science)

Minor in Computer Science • University of Hartford • Hartford, CT • 2023

SKILLS

Languages: Go, Python, Bash, JavaScript (Next.js, React)

Cloud & Infra: AWS (EKS/Kubernetes, Lambda, S3, RDS, Glue, Athena, Macie, IAM, KMS), Terraform, CloudFormation, Docker, Helm, Kafka

Monitoring & Security: Datadog, Prometheus, OpenTelemetry, Vault, WAF, Secrets Manager

Collaboration: Jira, Slack, Confluence, GitLab CI/CD, Agile workflows