

Malik Michael

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Computer Science graduate focused on backend, cloud, and data engineering; experienced in scalable microservices, CI/CD pipelines, container orchestration, and cloud-native data solutions (Python, Java, JavaScript, SQL, AWS). Built end-to-end data pipelines, deployed real-time observability dashboards, integrated ML into production systems, and developed internal tools that improved developer efficiency and system reliability.

Technical Skills

Languages: Python, Java, JavaScript, SQL

Frameworks: Django, Flask, FastAPI, JUnit, React, NextJS, WordPress

Developer Tools: Git, AWS (S3, Glue, Lambda, Kinesis, DynamoDB, RDS, SQS, OpenSearch, Bedrock), GCP, Docker, Kubernetes, Helm, Terraform, Prometheus, Grafana, Loki, Tempo, Mimir, Grafana Alloy, OpenTelemetry, Splunk, CI/CD, GitOps, Microservices, Cloud-Native, Container Orchestration

EXPERIENCE

Cloud Engineer Intern | ATPCO

June 2025 - June 2026

- *Grafana Observability Stack:* Deployed a full Grafana Labs suite — Grafana, Loki, Tempo, and Mimir — on Kubernetes, enabling unified metrics, logs, and distributed traces across all microservices and reducing MTTD by 45%.
- *Metrics & Dashboarding:* Built Grafana dashboards powered by Mimir and Prometheus remote write, surfacing real-time system health, SLO burn rates, and capacity trends for on-call and engineering teams across environments.
- *Log & Trace Pipeline:* Instrumented microservices with OpenTelemetry and configured Grafana Alloy as the collector agent to ship structured logs to Loki and traces to Tempo, establishing end-to-end correlated observability.
- *Alerting & SLO Enforcement:* Defined SLOs and SLIs using Grafana's SLO feature and Alertmanager routing rules, reducing alert noise by 35% while maintaining full error-budget breach coverage.

Jr Systems Dev Engineer Intern | Amazon Web Services

May 2023 - May 2024

- *Relational Data Pipeline:* Architected and deployed an end-to-end ingestion pipeline using Terraform and AWS CDK — from an internal RDS system via Glue into an S3 raw data lake, through a Lambda/SQS JSON transformation layer into S3 processed storage, indexed into OpenSearch and surfaced via Amazon Bedrock, improving data-driven decision-making and predictive analytics capabilities by 62%.
- *Streaming Data Pipeline:* Led end-to-end development of a real-time pipeline capturing DynamoDB change events via Kinesis into S3 raw storage, applying Glue Spark jobs for large-scale transformation into the processed data lake and enabling OpenSearch indexing and Bedrock-powered ML analytics.
- *Pipeline Optimization:* Evaluated migrating Lambda JSON transformations to Glue Spark jobs to improve scalability and fault tolerance; managed full lifecycle from design through production deployment and ongoing maintenance.

Software Engineer Intern | Cox Automotive Inc.

May 2022 - Aug 2022

- *Developed robust internal tools that streamlined operations and enhanced productivity across the enterprise.*
- *Designed and implemented comprehensive Splunk dashboards, providing real-time insights and analytics to improve system monitoring and incident response.*
- *Engineered a custom PagerDuty tool, integrating it with enterprise systems to optimize incident management and automate escalations for abandoned accounts.*

EDUCATION

George Mason University

Fairfax, Virginia

Bachelor of Science in Computer Science

January 2023 - July 2026

Northern Virginia Community College

Manassas, Virginia

Associate's in Computer Science

September 2018 - August 2021

Projects

NuroFit — AI-powered cross-platform fitness app (Flutter, Python, Supabase, Stripe)

- Designed and built a cloud-native, cross-platform mobile app (iOS & Android) delivering AI-powered personalized workout plans, nutrition tracking, and progress analytics.
- Implemented a microservices-based personalization pipeline and in-app analytics to adapt plans to user goals and performance.
- Integrated Supabase for backend, authentication and data storage, and Stripe for secure subscription payments and billing.
- Launched to the Apple App Store and Google Play Store; leveraged CI/CD pipelines for continuous delivery and data-driven user retention improvements.

Twippy — Automated Twitch → YouTube clip uploader (GCP, Python, JavaScript, Firebase, FFmpeg)

- Developed a cloud-native automated service to capture Twitch clips, process them with FFmpeg, and upload to users' YouTube channels via containerized microservices.
- Built scalable server-side processing on Google Cloud using Python, with Firebase for user metadata and configuration storage.
- Implemented OAuth integrations with Twitch and YouTube APIs and robust background processing to reliably handle clip conversion and uploads.
- Established CI/CD pipelines to automate testing and deployment, simplifying creators' workflow end-to-end.