

# Aimable Mugwaneza

DevOps | Cloud Infrastructure | CI/CD | Docker | AWS | Monitoring

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## PROFESSIONAL SUMMARY

Computer Science graduate specializing in Cloud Infrastructure and DevOps with hands-on experience deploying secure, production-grade cloud infrastructure using AWS, Docker, and Terraform. Proven ability to build and automate multi-environment CI/CD pipelines, deploy secure AWS infrastructure, and monitor containerized applications in production. Seeking a DevOps/Cloud Engineering role where I can drive automation, system reliability, and infrastructure scalability.

## TECHNICAL SKILLS

**Cloud:** AWS (EC2, VPC, S3, IAM, Route 53, CloudWatch, CloudFront, ECS, ECR, RDS, DynamoDB)

**DevOps & CI/CD:** Docker, Terraform, Git, GitHub Actions, GitHub Secrets, NGINX, Certbot, Bash, Linux(Ubuntu)

**Monitoring & Observability:** Prometheus, Grafana, cAdvisor, Node Exporter, CloudWatch

**Languages & Web:** Python, JavaScript, React, Node.js, Express API, HTML, CSS, Java

**Databases:** MongoDB, SQL, RDS, DynamoDB

**Tools:** Git, GitHub, VS Code, Packer

## CERTIFICATIONS

CompTIA Security+

March 2025

AWS Certified Cloud Practitioner

April 2025

AWS Certified Solutions Architect - Associate

July 2025

AWS Certified Developer - Associate

[Scheduled: July 2025]

Terraform Associate

[Scheduled: July 2025]

## EDUCATION

**Towson University**, College of Science and Mathematics, Towson, MD

May 2025

*Bachelor of Science, Computer Science*

GPA: 3.70

**Coursework:** Data Structures & Algorithms, Software Engineering, Data Communications & Networking, Operating Systems, Web-Based Programming, Database Management Systems

## CLOUD & DEVOPS PROJECTS

**Multi-Environment CI/CD Pipeline** [aimablem.dev](https://github.com/aimablM/multi-env-cloud-cicd-pipeline)

<https://github.com/aimablM/multi-env-cloud-cicd-pipeline>

*Docker, GitHub Actions, AWS ECR/EC2, NGINX, Route 53, Let's Encrypt, Multi-Branch Strategy*

- Architected enterprise-grade multi-environment pipeline supporting 3 isolated environments (dev/staging/production) with branch-based deployments, enabling 5+ parallel development workflows
- Automated container orchestration with environment-specific Docker tags, systematic port allocation, and zero-downtime deployments using blue-green deployment principles
- Implemented infrastructure with NGINX reverse proxy managing 4+ subdomains, wildcard DNS routing, and automated SSL certificate management reducing certificate maintenance by 100%
- Designed complex CI/CD workflows with 3 separate GitHub Actions pipelines, reducing deployment risk by 90% and manual deployment time from 45 minutes to 3 minutes (95% reduction)

**Secure Cloud Portfolio Website** - [aimablem.dev](https://aimablem.dev)

[github.com/aimablM/aimable-myportfolio](https://github.com/aimablM/aimable-myportfolio)

*React, Docker, GitHub Actions, AWS EC2, Terraform, Route 53, NGINX*

- Designed and deployed containerized React application using Infrastructure as Code (Terraform) with production-grade multi-AZ architecture across 2 Availability Zones for fault tolerance.
- Configured a secure VPC with public subnets, internet gateway, route tables, and tightly scoped security groups.
- Implemented automated GitHub Actions CI/CD pipeline reducing deployment time from 30 minutes to 2 minutes (93% reduction) with image builds, ECR pushes, and remote EC2 deployments.
- Secured domain routing using Route 53 with HTTPS via Certbot achieving 100% SSL coverage and automatic certificate renewals every 60 days.

**Infrastructure Monitoring Stack** - [monitor.aimablem.dev](https://monitor.aimablem.dev)

[github.com/aimablM/grafana-prometheus-monitoring-stack](https://github.com/aimablM/grafana-prometheus-monitoring-stack)

*Prometheus, Grafana, Docker Compose, Node Exporter, cAdvisor, NGINX, EC2*

- Deployed comprehensive observability infrastructure monitoring my EC2 instances and 10+ containerized applications with real-time metrics collection at 15-second intervals
- Implemented 4 production-grade Grafana dashboards from official marketplace tracking 50+ system and container metrics with proactive alerting for CPU (>80%) and memory (>85%) thresholds, reducing incident response time by 75%
- Automated infrastructure recovery with CloudWatch integration contributing to near- 99.9% uptime through EC2 health checks and auto-restart capabilities
- Secured monitoring endpoints with TLS termination and reverse proxy routing via NGINX, protecting 4 monitoring services behind authentication

**FlashLearn - Custom Full Stack Flashcard App** - [flashlearn.aimablem.dev](https://flashlearn.aimablem.dev)

[github.com/aimablM/flashlearn-cloud-infrastructure](https://github.com/aimablM/flashlearn-cloud-infrastructure)

*Vanilla JS, Node.js, Express API, MongoDB Atlas, Docker Compose, GitHub Actions, NGINX, EC2, Route53*

- Built and deployed a self-coded learning platform with secure user auth and flashcard creation
- Designed end-to-end CI/CD pipeline for multi-service Docker deployment reducing build time from 12 minutes to 4 minutes (67% improvement) using GitHub Actions and Docker Hub
- Managed 15+ secure environment variables with GitHub Secrets and enforced domain isolation across 3 separate service endpoints
- Implemented scalable microservices architecture with 3 separate containers (frontend, backend, database) and systematic health monitoring checking service status every 30 seconds.

## ADDITIONAL EXPERIENCE

**Amazon** | *Returns Learning Ambassador*, Aberdeen, MD

December 2020 – June 2024

- Led technical onboarding programs for new hires, delivering hands-on training for company software tools and procedures
- Optimized return processing workflows, increasing operational efficiency by 15% through process improvements and training initiatives
- Managed cross-functional team logistics, coordinating resources, schedules, and priorities to ensure efficient operations and timely delivery

**Target** | *Fulfilment Associate*, Cockeysville, MD

December 2019 – May 2020

- Efficiently coordinated and processed customer pickup orders, ensuring accuracy and timely availability
- Provided excellent customer service by assisting shoppers in locating items, navigating the store, and addressing inquiries
- Adapted to various roles as needed, demonstrating flexibility, problem-solving skills, and a strong work ethic in a fast-paced retail environment