

ABDULNASIR MOHAMMED

SENIOR INFRASTRUCTURE ENGINEER

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PROFESSIONAL SUMMARY

Senior Infrastructure Engineer with 10+ years building and operating large-scale AWS platforms for multi-tenant SaaS and Fortune 500 financial institutions. Deep expertise in infrastructure-as-code, CI/CD pipelines, and architecting AWS environments spanning disaster recovery, multi-account isolation, and dedicated single-tenant deployments under strict compliance and data-residency requirements. Known for turning manual, error-prone processes into automated, repeatable systems.

TECHNICAL SKILLS

Infrastructure as Code	Terraform, AWS CloudFormation, Helm
CI/CD & Pipelines	ArgoCD, CircleCI, Atlantis, GitHub Actions, Azure DevOps, GitOps
Containers & Orchestration	Kubernetes (EKS), Docker, ECS
Observability	Datadog, AWS CloudWatch
Security & Identity	Okta SSO, AWS IAM, AWS WAF
Languages	Python, Bash
Cloud Services	EKS, AppStream, WorkSpaces, EC2, Lambda, Aurora, DynamoDB, ElastiCache/Redis, OpenSearch, VPC, ALB, Secrets Manager, CloudFront

PROFESSIONAL EXPERIENCE

Founder & Principal Consultant, AYM Tech Media LLC	2025 - Present
- Provide cloud infrastructure, API, backend, frontend, desktop application, deployment, and operational engineering services for technology initiatives. - Lead technical delivery for MyeloMetrix, a grant-backed spinal-cord MRI analysis project that has secured more than \$100K in funding. - Architected the project's serverless FastAPI backend on Modal for automated MRI segmentation and measurement, paired with a cross-platform Electron desktop application and supporting web capabilities.	
Senior Site Reliability Engineer, Alloy Inc.	April 2024 - Present
- Architected and delivered Alloy's first disaster-recovery environment for the multi-tenant platform, spanning EKS clusters, public/private ALBs, Aurora, Redis, OpenSearch, DynamoDB, VPC networking, and Secrets Manager, cutting RTO from weeks to 30-60 minutes. - Provisioned fully isolated single-tenant and dedicated multi-account environments for Fortune 500 financial institutions, each with dedicated EKS, Aurora, Redis, OpenSearch, DynamoDB, networking, and security, enabling strict compliance, data-residency, and isolation requirements. - Standardized 20+ EKS clusters as code with Terraform and Helm, enabling repeatable provisioning and upgrades while reducing version drift. - Responded to 25+ infrastructure-related production incidents as part of the incident response team, and led post-incident follow-ups and postmortems that drove reliability improvements and reduced recurring issues.	

Senior Site Reliability Engineer, Alloy Inc. (continued)*April 2024 - Present*

- Deployed Datadog Cluster Agents and deep database monitoring with custom dashboards and APM, improving observability and accelerating incident detection.
- Designed and deployed a secure data cleanroom using AWS AppStream and WorkSpaces, giving teams ephemeral, auditable virtual desktops for handling PII so sensitive data stays off local work laptops and out of persistent endpoints.
- Engineered an Okta SSO integration for Retool via AWS WAF rules that block all non-Okta-authenticated requests, enforcing identity-based access control without modifying the application layer.
- Mentored junior engineers and led onboarding overviews for new hires, supervising their project work and performing extensive code and infrastructure PR reviews to uphold platform quality and standards.

Site Reliability Engineer, Alloy Inc.*April 2022 - April 2024*

- Migrated backend services from EC2 to Kubernetes (EKS), improving deployment consistency, infrastructure utilization, and horizontal scalability while accelerating platform adoption.
- Built a reusable CircleCI orb that automated Helm chart version updates across 20+ applications, with ArgoCD continuously delivering changes to Kubernetes clusters; managed Terraform provisioning through Atlantis.
- Maintained infrastructure with Terraform and Helm for multi-tenant and dedicated customer environments, enabling repeatable, compliant, version-controlled provisioning.

Cloud Engineer (DevOps), Norges Bank Investment Management (NBIM)*May 2019 - April 2022*

- Designed and operated a self-hosted CI/CD platform on Amazon ECS, launching 2,000+ containers daily to execute pipeline jobs at scale across engineering teams.
- Developed Python packages to manage Azure DevOps organizations, projects, and agent pools programmatically, reducing manual administrative overhead.
- Built internally hosted REST APIs surfacing real-time deployment and pipeline-infrastructure status to engineering teams.
- Maintained and enhanced legacy CI/CD pipelines (Ansible, Jinja2, CloudFormation) that migrated 300+ systems from on-premises data centers to AWS.
- Mentored 10+ engineers on secure AWS deployment practices and authored architecture documentation for all delivered solutions.

Cloud Operations / Support Engineer, Logicworks*April 2018 - May 2019*

- Built and provisioned multi-client AWS infrastructure (VPCs, EC2, RDS, ELBs, ElastiCache, ECS, CloudFront) using CloudFormation templates and Bash bootstrap scripts.
- Automated administrative tasks with Python (Boto3): EBS snapshot pruning, AMI creation, Route 53 DNS, resource tagging, and root-volume encryption; provided root-cause analysis for Sev1/Sev2 client outages.

Technical Systems Analyst, Logicworks*September 2016 - April 2018*

- Provided 24/7 NOC monitoring of 7,000+ multi-cloud VMs across AWS, Azure, and VMware private cloud using ScienceLogic EM7.
- Applied security patches to 3,000+ Windows and Linux servers monthly; led remediation for the WannaCrypt and Spectre/Meltdown vulnerabilities across the client fleet.

EDUCATION

City University of New York, Lehman College, B.S. Computer Science*May 2015*