

SAIFUL KHAN

Senior Cloud Engineer — AWS Serverless & Containers

Edmonton, AB • +1 825 713 8889 • srub443@gmail.com • linkedin.com/in/saiful-khan-29810426b

PROFESSIONAL SUMMARY

Senior Cloud Engineer with 9+ years of hands-on experience, including 5+ years designing, building and operating production AWS workloads in large-scale 24/7 enterprise environments. Deep implementation experience across AWS **serverless** — **Lambda, API Gateway, DynamoDB, Step Functions, EventBridge, SNS, SQS, Kinesis, Cognito, S3, RDS, IAM, VPC, CloudWatch** — and AWS container platforms including **Docker, ECS Fargate, ECR** and **EFS**. Specialist in **event-driven** architecture patterns (**SNS/SQS/EventBridge** fan-out, DLQs, scheduled and rule-based event routing) and in building resilient, cost-optimized, well-architected solutions end to end, from **PoC/MVP** through production. Strong software development background in **Python** and **JavaScript/Node.js**, with infrastructure delivered as code through **CloudFormation, AWS CDK, Terraform** and **GitHub Actions reusable workflows**. Track record of mentoring engineers, leading design reviews and delivering measurable outcomes — **50%** toil reduction, **40%** MTTR improvement, **25%** cloud cost savings.

CORE TECHNICAL SKILLS

AWS Serverless: Lambda, API Gateway, DynamoDB, Step Functions, EventBridge, SNS, SQS, Kinesis, Cognito, S3, RDS/Aurora, IAM, VPC, CloudWatch, Secrets Manager, Systems Manager

AWS Containers: Docker, ECS Fargate, ECR, EFS, EKS, Helm, ALB ingress, autoscaling, blue/green deployments

Event-Driven Architecture: SNS/SQS fan-out, EventBridge rules & scheduled events, Kinesis streaming, S3 event notifications, DLQs & retry patterns

Languages: Python, JavaScript/Node.js, Shell, Groovy, YAML/JSON

Deployment & IaC: CloudFormation (incl. StackSets), AWS CDK, Terraform, GitHub Actions reusable workflows, Jenkins, Liquibase (database schema management), Ansible

Observability: CloudWatch, Prometheus, Grafana, ELK/OpenSearch, Alertmanager

WORK EXPERIENCE

Wood Mackenzie — Senior DevOps Engineer

Edmonton, Canada • 05/2023 – 07/2026

- Designed and implemented a **serverless** credential management platform using **AWS Lambda, Secrets Manager, EventBridge** scheduled rules and **CloudFormation StackSets**, automating token lifecycle management across a multi-account AWS environment and eliminating manual secret rotation.
- Built **event-driven** integration patterns with **SNS/SQS** fan-out, dead-letter queues and **EventBridge** rule-based routing to decouple services and guarantee reliable, replayable message processing across production workloads.
- Implemented **AWS Step Functions** state machines orchestrating **Lambda** functions for a large-scale repository backup and migration pipeline — **6,000+** repositories archived to **S3 Glacier** via parallel **Python** workers with **zero data loss**.
- Architected and operated enterprise container platforms on Amazon **ECS Fargate** and **EKS**: **ECR** image build/publish pipelines, **EFS**-backed persistent storage, **ALB** ingress, autoscaling policies and multi-environment deployment patterns serving **10+** product teams.
- Implemented **Kinesis Data Streams/Firehose** ingestion pipelines feeding **S3** and **OpenSearch** to stream operational telemetry and application events for real-time analytics and alerting.
- Implemented **Amazon Cognito** user pools with **API Gateway** authorizers to secure internal APIs and engineering dashboards with federated sign-in and fine-grained **IAM** access.
- Defined infrastructure with **AWS CDK** and **CloudFormation** alongside **Terraform**, and built reusable **GitHub Actions** workflows adopted by **20+** business-critical applications, cutting deployment time **30%**.
- Automated database schema management for **RDS/Aurora** with **Liquibase** integrated into CI/CD pipelines, enabling versioned, repeatable schema releases across environments.
- Implemented AWS Bedrock, Azure AI Foundry and GCP Vertex AI services, provisioning secure data pipelines and LLM Ops infrastructure for multi-cloud AI workloads.
- Led cloud cost optimization across EC2, **ECS**, **S3** and EBS — rightsizing, autoscaling and lifecycle policies — reducing infrastructure spend **25%** with no performance impact.
- Established observability architecture with **CloudWatch, Prometheus, Grafana** and **ELK**, improving incident detection and driving **40%** MTTR improvement and **50%** toil reduction through **Python** automation.
- Mentored engineers on cloud-native architecture, **serverless** patterns, IaC and AWS **Well-Architected Framework** principles.

Amazon — DevOps Engineer

Canada • 03/2022 – 05/2023

- Built **serverless** applications on Amazon **API Gateway**, **AWS Lambda**, **DynamoDB**, **S3** and **Aurora** supporting scalable **event-driven** architectures and data-processing workloads.
- Implemented **event-driven** deployment automation using **S3** event notifications, **SNS/SQS** messaging and **Lambda**, reducing manual effort and improving release reliability.
- Developed a **serverless** credential rotation solution (**Lambda**, **Secrets Manager**, Systems Manager Parameter Store, **EventBridge** schedules) rotating service-account tokens monthly with zero manual intervention.
- Containerized enterprise applications with **Docker** and deployed to Amazon **ECS** (Fargate) and Kubernetes with **ECR** image pipelines, rolling and **blue/green** deployment strategies and automated scaling.
- Designed cloud-native AWS architectures per the **Well-Architected Framework** — scalability, high availability, disaster recovery, security and cost optimization.
- Provisioned **VPCs**, subnets, NAT gateways, ALBs, security groups, **IAM** roles, **RDS**, **S3**, Route 53, **SQS** and **SNS** across environments with **CloudFormation** and **Terraform**.
- Developed **Python** and **Node.js** automation for infrastructure management, deployment workflows and platform maintenance.
- Implemented observability with **CloudWatch**, **Prometheus**, **Grafana** and **ELK/EFK** for centralized logging, monitoring and alerting.

GlobalLogic (Rogers) — Infra Engineer

Canada • 07/2021 – 10/2021

- Designed and implemented highly available AWS infrastructure spanning EC2, **VPC**, **ECS**, **ALB**, Auto Scaling, Route 53, CloudFront, **API Gateway**, **RDS**, ElastiCache, **SNS**, **SQS**, **Lambda**, **IAM**, **CloudWatch** and CloudTrail.
- Implemented **AWS Lambda** functions and **Python** automation to eliminate repetitive operational processes; benchmarked **serverless** architectures (**Lambda** vs. Azure Functions) for scalability, concurrency, latency and cost to guide adoption decisions.
- Managed containerized workloads on Amazon **ECS** with **blue/green** deployments, service discovery and load balancing for zero-downtime releases.
- Provisioned secure networking (custom **VPCs**, subnets, NAT/Internet gateways, NACLs) and least-privilege **IAM** with **Terraform** and **CloudFormation**.
- Built monitoring and alerting with **CloudWatch**, **SNS**, **Prometheus** and **Grafana**, reducing mean time to detect.

Amazon — Support Associate

Canada • 08/2020 – 03/2021

- Deployed and maintained enterprise data-center compute, storage and network infrastructure; resolved Layer 1/2 network and server hardware issues within customer SLAs.

Ceragon Networks — Technical Support Engineer

India • 04/2017 – 12/2019

- Managed Cisco routing/switching, DHCP/DNS, Linux/Windows systems and disaster-recovery procedures for carrier network infrastructure.

IMS Infotech Pvt Ltd — Field Engineer

India • 12/2015 – 04/2017

- Configured and troubleshot Cisco network switches and Layer 2/3 technologies (VLANs, STP, OSPF, MPLS).

EDUCATION

BTech — Sikkim Manipal Institute of Technology, India • 2014