

# CALVIN LI

Engineer

## SKILLS



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### Hard Skills

Integration & Unit Testing · Technical Reporting & Documentation · Corporate & Regulatory Compliance · Design & Implementation · Data Analysis

### Techniques

IaC · CI/CD · Monitoring and Logging · Automated Testing · Containerization · Self-Serve Apps & Services · Version Control · SDLC

### Tools & Software

Git · GitHub · GH Actions · Docker · Terraform · Bitbucket · Dynatrace · Ansible

### Amazon Web Services

CloudFormation · Amazon Cognito · Lambda · S3 · ECS · CloudWatch · RDS · DynamoDB · IAM · VPC · WAF · Cloud9 · CloudTrail · Fargate · KMS · ECR · QuickSight · Route53 · Service Catalog

### Languages

Python · JavaScript · TypeScript · Bash · YAML · React.js

## EXPERIENCE

**Bank of Montreal, Toronto, ON**

March 2024 - Present

### Cloud Automation Specialist

- Analyzed triage tickets to identify patterns and spearheaded the development of self-service automation solutions in ServiceNow, improving issue resolution efficiency.
- Designed and implemented server maintenance and reporting automation using Ansible Automation Platform, integrated with GitHub for version-controlled code management.
- Deployed dynamic Dynatrace dashboards to deliver real-time application performance metrics for the Corporate Finance FCU SRE team, significantly enhancing operational visibility and decision-making.
- Collaborated with development and operations teams to optimize cloud infrastructure strategies, addressing outstanding issues related to IaaS onboarding initiatives.
- Implemented AWS infrastructure monitoring by integrating custom ServiceNow alerting workflows within the approved BMO framework, improving system reliability.

**Bank of Montreal, Toronto, ON**

June 2022 - March 2024

### Cloud Engineer

- Designed, built, and managed an automated pipeline for AWS Cognito Authentication, modernizing the system and eliminating obsolete practices like the use of API Keys.
- Led triage efforts for the DevOps Team, managing daily support tickets and providing crucial support to junior team members.
- Identified bottlenecks in the development process and introduced process improvements, leading to decrease in bug resolution time and an increase in overall software quality for cloud teams.
- Optimized AWS cost management by implementing cost allocation tags, and reserved instances resulting in significant cost savings without compromising performance or reliability.
- Collaborated with cybersecurity teams to implement advanced threat detection and prevention mechanisms, integrating AWS WAF into the cloud infrastructure.
- Mentored junior cloud engineers on best practices for cloud architecture, deployment, and optimization, fostering a culture of continuous learning and improvement within the team.
- Architected and implemented a fault-tolerant and scalable microservice architecture on AWS Lambda, boosting system reliability by eliminating single points of failure and allowing for seamless scaling based on demand, resulting in reduction of system downtime.
- Implemented stringent data security measures and ensured compliance with bank regulations by enforcing AWS Secrets Manager and AWS Key Management Service (KMS) for Infrastructure as Code (IaC) deployments, safeguarding sensitive information and mitigating risks.
- Employed AWS account organization structure to segregate various environment stages, enabling the smooth promotion of application services across development, testing, and production stages. This approach facilitated seamless transitions between environments while maintaining clear boundaries and access controls.

## LICENSES & CERTIFICATIONS

**AWS Certified Cloud Practitioner**

July 2020 - July 2023

Amazon Web Services (AWS), Online

## EDUCATION

**Bachelor of Science: Computer Science**

Sept 2016 - April 2022

Wilfrid Laurier University, Waterloo, ON