

CALVIN LI

Engineer

SKILLS



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github.com/calvin-li-developer

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 · JFrog Artifactory

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

June 2022 - Present

Cloud Engineer

- Orchestrated the design, administration, and execution of CI/CD pipelines (prod/non-prod) on GitHub, leveraging GitHub Actions, AWS ECS, Fargate, and custom Docker Images.
- Collaborated with cross-functional teams to ensure compliance with banking standards using AWS CDK and CloudFormation templates, while enforcing best practices for testing and linting.
- 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.
- Facilitated the migration of legacy on-premises applications to AWS cloud infrastructure, ensuring uninterrupted operations and business continuity by orchestrating smooth transitions with minimal downtime.

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

Diploma: Computer Programmer

Sept 2014 - April 2016

Algonquin College, Ottawa, ON

Awards:

- School of Advanced Technology Award
Awarded to a graduating student who has demonstrated academic excellence in theory and technical achievement, coupled with creativity and ingenuity.