

Cole Mackenzie

SOFTWARE DEVELOPER · CLOUD ENTHUSIAST

Edmonton, Alberta, Canada

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Skills

Interested in the good stuff? These are the languages, technologies and tools I have worked with

Languages: Java (Spring), Python, Ruby (Chef), Go, C

Tools: Amazon Web Services (EC2, IAM, S3, Route53, VPC, RDS, CloudWatch, CloudFormation), Docker, Git, Jenkins, Terraform, CircleCI, Splunk, Grafana

Databases: MySQL, Elastic Search, DynamoDB, Neo4j

Operating Systems: macOS (Mac OS X), Linux (most experienced in RHEL, Amazon Linux, and Ubuntu)

Work Experience

Intuit Inc.

Mountain View, California

SOFTWARE ENGINEERING INTERN

May. 2018 - PRESENT

- Architected and developed an application built on the Spring Framework
- Implemented a pipeline to export, validate, and migrate Amazon Connect call flows between environments and regions.
- Visualized Amazon Connect contact flow dependencies and impact radius using Neo4j graph database

Intuit Inc.

Edmonton, Alberta

SOFTWARE DEVELOPER CO-OP

Jan. 2017 - April. 2018

- Simplified our development environment for our Python application by utilizing Docker containers and Docker Compose
- Built and deployed overall service infrastructure utilizing Docker container, AWS CodeBuild, and several other AWS services (Including EC2, ECS, Route 53, S3, CloudFront, RDS, IAM), focusing on high-availability, fault tolerance, and auto-scaling.
- Spearheaded a service migration from our internal data center to AWS using well established and industry best practices
- Delivered on going System Operations for our services in AWS and was responsible for several production and development AWS accounts.
- Volunteered for on-site support during high traffic periods and exceeded multiple managers expectations for the level of service provided.

Fraunhofer FOKUS

Berlin, Germany

SOFTWARE DEVELOPER INTERN

June. 2016 - July. 2016

- Tested and evaluated InfluxDB and Elastic Search for storing time-series data from Health Accessories (ie. Fitbit) and EKG (Electrocardiogram) tests.
- Created dashboards in Kibana and Grafana for visualizing collected metrics.
- Devised a simple RESTful API with Apache NiFi with custom processors for data processing.
- Created Docker containers and required scripts for containerization of Apache NiFi.

Education

University of Alberta

Edmonton, Alberta

B.Sc. IN COMPUTING SCIENCE WITH SPECIALIZATION

Sept. 2014 - present

- Co-op program with 16-months experience at Intuit

Extracurricular Activity

Ada's Team

Edmonton, Alberta

MEMBER

Sept. 2015 - PRESENT

- <http://www.adasteam.ca/> - A group of students at the University of Alberta dedicated to promoting diversity in computing, games, and technology.

Undergraduate Association of Computing Science (UACS)

Edmonton, Alberta

MEMBER

Sept. 2014 - PRESENT

- The purpose of UACS is to promote an environment for the interaction of computing science students with other computing science students and other relevant parties.