

Cole Mackenzie

SOFTWARE DEVELOPER · CLOUD ENTHUSIAST

Edmonton, Alberta, Canada

☎ (+1) 587-877-7147 | ✉ colemackenzie1@gmail.com | 🏠 <https://cmackenzie1.github.io> | 💻 [cmackenzie1](#) | 🌐 [cole-mackenzie](#)

Summary

Current Student at the University of Alberta pursuing a Bachelor of Science with Specialization in Computing Science. I have 2 years of experience in back-end development, infrastructure automation, and system operations at Intuit where I completed a 16 month Co-op and also completed 1 patent submission with 4 others members of my team. I am always interested in learning new (and old) technologies and applying them to my current projects.

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

Extracurricular Activity

Lambda Chi Alpha Mens Fraternity

Edmonton, Alberta

VICE PRESIDENT

Oct. 2016 - Apr. 2017, May. 2018 - PRESENT

- Created plans to involve all brothers in the Chapter's programming and operations through the use of teams, committees, and incentive programs to maximize participation
- Acted as the Chapter's second ranking officer, replacing the High Alpha in his absence or inability to function.
- Served as strictly an advisement role for our Executive Committee.

Lambda Chi Alpha Mens Fraternity

Edmonton, Alberta

PRESIDENT

May, 2017 - Apr. 2018

- Served as the executive head of the Chapter by presiding over all chapter meetings and the Executive Committee.
- Enforced the laws and policies of the Fraternity and host institution by seeing that the other elected and appointed officers execute their duties properly and effectively
- Digitized and centralized all our operating documents.
- Fostered leadership skills in the other executives and Chapter members.
- Championed the fulfillment of our vacant alumni advisory member with a member well recognized by our Chapter.
- Attended several leadership conferences hosted by our International organization.

Lambda Chi Alpha Mens Fraternity

Edmonton, Alberta

TREASURER

May, 2016 - Apr. 2017

- Developed our Annual Budget and kept accurate records of all financial transactions
- Processed and collected dues for all members of the Chapter.
- Lead presentations on financial responsibility and money management directed towards post-secondary students.