

Cole Mackenzie

Software Developer

A skilled and reliable software engineer who is always willing to learn. Actively seeking a full-time position as a Software Engineer or Site Reliability Engineer after completing my BSc. in December 2019.

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WORK EXPERIENCE

Software Engineer Intern Intuit Inc.

05/2019 – 08/2019

Mountain View, California, USA

Creators of TurboTax, Quick Books, and Mint

Achievements/Tasks

- Designed, developed, and implemented a continuous integration process for data validation resulting in dramatic improvements to the developer feedback cycle, lowering it from 45 minutes to less than a minute.
- Taught new hires how to deploy changes in E2E and Production AWS Environments.
- Updated Hive and Vertica table schemas as per internal customer requests

Software Engineer Intern Intuit Inc.

05/2018 – 08/2018

Mountain View, California, USA

Creators of TurboTax, Quick Books, and Mint

Achievements/Tasks

- Designed and built a Java Spring service from scratch in 3 months - exceeding my team's expectations.
- Implemented a pipeline to handle importing, exporting, validating and visualizing Amazon Connect Call Flows across Intuit.

Software Developer Co-op Intuit Inc.

01/2017 – 04/2018

Edmonton, Alberta, Canada

Creators of TurboTax, Quick Books, and Mint

Achievements/Tasks

- Contributed to the development of a service to extract and label semi-structured data using optical character recognition, machine learning, and spatial awareness.
- Simplified and standardized our development and deployment environments across our services. Decreasing the time from development to production to less than 1 hour.
- Designed, deployed, and maintained our service infrastructure on AWS using Docker for multiple teams at Intuit.
- Spearheaded a service migration from our internal datacenter to the cloud.
- Provided rotational on-call support for our team services and delivered several tech talks on new technologies at Intuit.

Software Developer Intern Fraunhofer FOKUS

06/2016 – 07/2016

Berlin, Germany

Europe's largest application-oriented research organization.

Achievements/Tasks

- Created and maintained Docker images for Apache NiFi to create a platform for storage and visualization of personal health data.

EDUCATION

BSc. Computing Science with Specialization University of Alberta

09/2014 – 12/2019

16-month Science Internship Program

Courses

- Software Development I, II, & III, Operating Systems, Computer Networks, Information Retrieval and Databases I & II.

SKILLS

Java (Spring)

Python (Django)

AWS

Docker

Ruby (Chef)

RDBMS

Jenkins

Linux

NGINX

Git

Vertica

Hive

CI/CD Pipelines

Leadership

Presentation

Object Orientated Design

Project Management

PROJECTS

New Grads 2020 (08/2019 – Present) 🔗

- Created a GitHub repository to track technical new grad positions with over 150 stars and around 300 daily active visitors

Univerage (05/2019 – Present) 🔗

- Started building a Spring application to store and aggregate course averages automatically extracted from PDF transcripts.
- Worked with the University of Alberta for obtaining course information and averages.

Core (01/2019 – 04/2019) 🔗

- Implemented an API specification for a distributed social media network using the Django Framework
- Deployed and managed the application infrastructure on AWS

Homefinder (08/2018 – 12/2018)

- Architected and lead the development of a Django based roommate pairing app for post-secondary students with a team of 5 students

Dryver (09/2016 – 12/2016) 🔗

- Recreated a ride sharing application on Android powered by Elastic Search with a team of 5 students

ACHIEVEMENTS

SIMULATING IMAGE CAPTURE (07/2017) 🔗

Intuit - Patent Pending - US20190019021A1