




# Cole Mackenzie

## Software Developer

Graduating in December 2019 - looking for 2020 start. I have a desire to automate things and have a passion for cloud computing, site reliability engineering (DevOps), and system operations.


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## WORK EXPERIENCE

### Software Engineer Intern Intuit Inc.

05/2019 – Present

Mountain View, California, USA

Creators of TurboTax, Quick Books, and Mint

#### Achievements/Tasks

- Architected and implemented a continuous integration process for data validation resulting in dramatic improvements to the feedback cycle, lowering it from 45 minutes to less than a minute.

### 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 – Present

16-months 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

CI/CD Pipelines

Leadership

Presentation

Object Orientated Design

Project Management

## PROJECTS

### 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 and a team of 5.
- 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