STEFAN MURGA

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WORK EXPERIENCE

Amazon, *Software Development Engineer*   **Jun 2019 – Present**

- Built the first AWS-based service on the team, successfully ported over APIs, and migrated clients in production. The service is a cache layer on top of a DynamoDB table that vends data through APIs. Followed best practices to ensure security, maintainability, and operational excellence of the service, which has handled up to 1300 TPS and has a p90 latency SLA of <50ms. The service allows other teams to query for product tax code data and enables use cases such as the Seller Central webpage.

- Designed and implemented the backend for a CRUD web app that allows tax analysts to author and manage various types of tax business rules. Communicated with tax analysts and the tax calculation engineering team to develop models for the business rules that reflect real world tax concepts and can be consumed in the tax calculation workflow. Had ownership and maintained the libraries that were used to consume the business rules for tax calculation.

- Designed and implemented a scalable shadow report generator that reduces the risk of deploying tax compliance projects for tax analysts. The reports, up to 200GB in size, compare tax calculations from prod and pre-prod environments by replaying 1% of live prod traffic against a pre-prod stack and acts as a regression suite filled with real-world use cases.

- Refactored a web app that maintains a dataset of product taxability by consolidating its two diverging representations, enabling the dataset to be leveraged by another project. The refactor was carried out without adverse impacts and improved the user experience for tax analysts that manage the dataset.

- Led sprint meetings as scrum master and developed a new process that increased planned work completed each sprint. Conducted team meetings to gather and deliver anonymized feedback to management, and fostered collaboration to create action items and improve processes.

eMurmur, *Web Developer (part-time)*   **Sep 2018 – Apr 2019**
Carleton University, *Undergraduate ML Researcher*   **May 2018 – Aug 2018**
Ciena, *Software Developer Intern*   **May 2017 – Dec 2017**
Stantec, *Electrical Designer*   **May 2016 – Dec 2016**
McAfee, *Software Engineering Intern*   **May 2015 – Aug 2015**
Canadian Armed Forces, *Army Communications Technician*   **Mar 2010 – Mar 2014**

EDUCATION

Carleton University, *B.Eng. Computer Systems*   **Sep 2014 – Apr 2019**

- Graduated with High Distinction (3.9 GPA)
- 2016 Carleton University Undergraduate Co-op Student of the Year
- Awarded Senate medal for outstanding academic achievement upon graduation

SKILLS

Java **Python** **Typescript** **AWS** **DynamoDB** **S3** **CDK** **CloudFormation** **React** **APIs**

OOP **Git** **CI/CD** **IntelliJ** **Visual Studio Code** **Agile**