

## Technical Skills

**Languages:** Python, C#, Ruby, SQL, C, C++, Java, HTML, CSS, Matlab

**Technologies:** Linux, AWS (Lambda, DynamoDB, S3), Git, Splunk, Pandas, NumPy, Datadog, Unity, ASP.NET, Jira, Confluence, Docker, Vim, VS Code

## Work Experience

Site Reliability Engineer II | **Mastercard**

Feb 2023 – Present

- Worked in monitoring and maintaining production servers that handle billions of transactions per day with a service level agreement of 99.95%
- Ensured 24/7 production monitoring by coordinating with international teams across continents through revolving daily standups and logging everyday tasks
- Maintained service reliability during on-call shifts by responding to urgent issues and monitoring alerts
- Resolved customer tickets within 4-day target deadlines by investigating documentation, querying data, and coordinating amongst various product teams

Software Developer (Co-op) | **Moz**

May – Dec 2020

- Operated under the data services team on an analytical web app using MySQL, Ruby on Rails, and AWS for enabling customers to extract search engine results for site and keyword analysis
- Developed an experimental SEO ranking algorithm in Python using AWS Lambda and S3 by streaming large JSON data for testing scalability and speed among various programming languages
- Built a data pipeline to store millions of results from a machine learning model in AWS DynamoDB for scalable data analysis
- Responded to client data migration errors by removing duplicate data entries using SQL queries

Software Developer (Co-op) | **Virtro**

Jan – Aug 2019

- Developed a web app using ASP.NET and C# to display employee time sheets by querying a MySQL database which resulted in reducing a payroll processing job of 2 hours down to 15 minutes
- Implemented a database using Microsoft SQL Server for storing game character (NPC) dialogues
- Participated in Agile environment using Scrum methodologies through daily stand-ups and weekly sprints
- Compelled proper Git practices by including a feature branch workflow and standardising commit messages to help track changes
- Automated CSV file generation in Python using Google Sheets API to parse spreadsheet data resulting in completing a manual data entry task from 1-week to 5 minutes

## Technical Projects

### COVID-19 & Stock Market Analysis

- Analysed the correlation between total COVID-19 cases and major stock market indexes over time for select 15 countries using Python
- Created a website using React.js to present interactive data allowing the user to select which countries to view and including an optional logarithmic scale
- Collaborated with team using Git and Discord to extract, transform, and load data for the web frontend

### Machine Learning Sorting Hat

- Utilised Python's data science tools to extract and analyse over a million personality quiz responses into an associated Harry Potter house
- Cleaned and analysed over 1 million rows of data using Pandas and NumPy to prevent inaccuracy in statistical tests
- Coordinated with team on visualizing dataset by creating histograms, boxplot, and a pie chart for report

## Education

**Simon Fraser University** | Vancouver, Canada  
B.Sc Computer Science