

TAYLOR McOUAT

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Education

University of British Columbia (4.03/4.3)

Bachelor of Applied Science in Computer Engineering

Sep. 2018 – Current

Vancouver, BC

University of Calgary (3.72/4.3)

Bachelor of Science in Chemistry

Sep. 2014 – May. 2018

Calgary, AB

Relevant Coursework

- Data Structures
- Software Methodology
- Algorithm Analysis
- Machine Learning
- Web Development
- Systems Programming
- Computer Architecture
- Computer Hardware

Experience

Workday

May 2022 – December 2022

Software Engineer Intern

Vancouver, BC

- Worked with designers to develop and test accessible, responsive and reusable React JS components using Typescript.
- Designed and developed internal API's using Kotlin and WebFlux to securely pass back-end information to the client.
- Performed end-to-end testing with Cypress web testing framework and unit testing with Jest
- Participated in daily code reviews to ensure high-quality production code. Highlighted any discrepancies and errors and brought it to the authors attention.

Amazon Web Services (AWS)

January 2022 – April 2022

Software Development Engineer Intern

Vancouver, BC

- Analyzed existing customer API throttle limits on the Simple Workflow service and safely raised our service's throttle limit, leading to a 95% reduction in customer requested limit increases.
- Developed reusable, internal tools using Python and NumPy to analyze customer throttle limits and the capacity of our system to manage increased throttle limits safely.
- Managed the end-to-end deployment of my code through the deployment pipeline, from the code-review to production deployment, ensuring the safety of the system by monitoring relevant metrics and tests.

Castofly Technologies

May 2021 – August 2021

Software Engineer Intern

Vancouver, BC

- Designed and developed highly-requested features using Java, including animation in videos and canvas tools.
- Integrated the Tenor API into the existing architecture, allowing users to search and insert GIFs into their project.
- Utilized React to create a front-end for the migration of the desktop application to the web.
- Developed and performed unit testing, leading to the discovery and removal of bugs.

Balancing Pool

July 2019 – April 2021

Power Analyst

Calgary, Alberta

- Utilized Python and MATLAB to develop portfolio management models to optimize profitability.
- Built fundamental supply and demand scenarios to forecast short term power prices.
- Collaborated with my team members using Git to effectively organize version control and collaboration.
- Made daily energy offers into AESO's energy market.

Projects

Windows XP Portfolio Website | (Personal Project) JavaScript, React, TypeScript

January 2023

- Developed a web application inspired by Windows XP to display my resume and personal projects.
- Reusable, accesible and responsive front-end application written in React using TypeScript.

TrailBlaze - A Tinder-style Hiking App | (Academic Project) Python, Flask, Flutter

April 2021

- Created a mobile application that uses machine learning to connect users with their preferred hikes in British Columbia.
- Developed a Flask API to communicate with machine learning models and to transfer data from the mobile app.
- Developed a recommender PyTorch model to recommend hikes to users based on other users with similar preferences.

Technical Skills

Languages: Python, Java, C, C++, HTML/CSS, JavaScript, MATLAB

Developer Tools: IntelliJ, Eclipse, VS Code, Google Colab

Technologies/Frameworks: Linux, GitHub, JUnit, Flask, React