

TAYLOR McOUAT

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🐙 github.com/taylormcouat

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

Amazon Web Services (AWS)

Incoming Software Development Engineer Intern

January 2022 – April 2022

Vancouver, BC

- Working on the Amazon Simple WorkFlow software.

Castofly Technologies

Software Engineer Intern

May 2021 – August 2021

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

Power Analyst

July 2019 – April 2021

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.

BioT, UBC Envision

Instrumentation Team Member

September 2018 – May 2019

Vancouver, BC

- Collaborated with a team of Engineering students to create an automated beer brewing system.
- Helped develop Python software that automatically tracks real-time data in the beer-brewing process, such as Temperature and pH.

Projects

Portfolio Website (www.tmcouat.com) | (Personal Project) Python, Flask, JavaScript

January 2021

- Developed a web application to display my resume and personal projects.
- Frontend of website written in HTML, CSS, and JavaScript utilizing bootstrap packages.
- Backend developed using Python, utilizing the Flask web framework, and deployed on a remote Linux server.

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

April 2021

- Collaborated with team members to create an iOS/Android application that uses machine learning to connect users with their preferred hikes in British Columbia.
- Created a Selenium application to pull data from AllTrails and summarize it into a csv file.
- Developed a RESTful Flask API that communicates with our machine learning models and sends/receives data from the mobile app.
- Developed a recommender model, using PyTorch 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