

# TAYLOR McOUAT

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## Education

### University of British Columbia (86.9%)

*Bachelor of Applied Science in Computer Engineering*

Sep. 2018 – Current

Vancouver, BC

### University of Calgary (3.62/4.0)

*Bachelor of Science in Chemistry*

Sep. 2014 – May. 2018

Calgary, AB

## Relevant Coursework

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

## Experience

### 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](http://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.

### BlackJack Game | (Personal Project) Python

January 2021

- Developed a Blackjack game where users can place bets and face off against a dealer.
- Written in Python and utilized Tkinter and PIL image processing packages to create the GUI.

## Technical Skills

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

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

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