TAYLOR MCOUAT

Vancouver, BC

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Education

University of British Columbia (4.03/4.3)   **Sep. 2018 – Current**
Bachelor of Applied Science in Computer Engineering   *Vancouver, BC*

Experience

Amazon Web Services (AWS)   **May 2023 – August 2023**
Software Development Engineer Intern   *Vancouver, BC*
- Created and deployed an internal full-stack web application that consolidated essential metrics across various services at AWS for relevant issues using React and Flask.
- Automated issue resolution by monitoring pipelines, deployments and alarms for the service using Python.
- Integrated with Slack to proactively alert on-call operators about stale or expiring issues, improving issue tracking.
- Adapted a team-specific internal issue tracking tool to be team-independent, now employed by over 10 AWS teams.

Workday   **May 2022 – December 2022**
Software Engineer Intern   *Vancouver, BC*
- Collaborated with designers to develop accessible, responsive and reusable React components using Typescript.
- Leveraged Kotlin and WebFlux to develop internal APIs to securely pass back-end information to the client.
- Performed end-to-end testing with the Cypress web testing framework and unit testing with Jest
- Participated in daily code reviews to ensure quality code. Highlighted any discrepancies and errors and brought it to the authors attention in a timely manner.

Amazon Web Services (AWS)   **January 2022 – April 2022**
Software Development Engineer Intern   *Vancouver, BC*
- Analyzed customer API throttle limits on the Simple Workflow service and safely raised the service's default throttle limit, leading to a 95% reduction in customer requested limit increases.
- Developed reusable tools using Python and NumPy to analyze and manage API throttle metrics for various teams
- Managed end-to-end deployment of changes through the deployment pipeline, ensuring the safety of the service 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.
- Lead the migration of the desktop application to the web, utilizing React and Django
- Developed and performed unit testing, leading to the systematic 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.
- Collaborated with my team members using Git to effectively organize version control and collaboration.

Projects

Gym TrAIner - An AI Personal Trainer | *Python, Flask, Flutter*   **April 2023**
- A React Native mobile application that tracks a user's form during exercise and provides customized feedback
- A tensor flow machine learning model that provides pose estimation and compares to a reference form
- Rust server orchestrates the communication between the app, the cloud database, and the machine learning model.

Windows XP Portfolio Website (www.tmcouat.com) | *JavaScript, React, TypeScript*   **January 2023**
- 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 | *Python, Flask, Flutter*   **April 2021**
- 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.
- Built 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, React Native, Spring, Django