

# Tamzeed Quazi

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## Experience

### Tetra Tech

Vancouver, British Columbia

Software Developer Co-op

Jan 2023 - Aug 2023

- Coordinated in a small team to communicate new tasks/goals, bugs, optimization opportunities, and expectations for upcoming client meetings using **JIRA** in an **Agile** development cycle
- Helped develop and test **machine learning** segmentation models to detect water bodies in satellite images, and created visuals and collected metrics of our models which **impressed stockholders** during client meetings
- Reduced** average pipeline process time to fully process an entry by **~90%** and **optimized** polygon searches of **100,000+** data points with KDTrees and **PostgreSQL**
- Automated** an alert system with **Python** to notify clients of potential flood events that could damage their assets
- Developed the **front-end** integration and **API** endpoints to allow users to upload and interact with custom files on [FusionMap](#)
- Implemented time-series view on [FusionMap](#), allowing users to view blended satellite images over an area over-time
- Extensively documented my work on multiple projects (with **Confluence**) to aid in training for future co-ops

## Club Experience

### UBC Solar Car Design Team

Vancouver, British Columbia

Simulation Software Developer

Sep 2023 - Current

- Developed an **Electron** client to run simulations using **React** that graphs strategy-relevant data over time and maps race paths
- Allowed for custom parameters to be passed from the front-end to run the **Python** simulation module in the back-end
- Used **NumPy** to calculate for car energy changes at different tick times from regenerative braking and low voltage systems

## Projects

**AI Exercise Form Tracker** | [React.js](#), [TailwindCSS](#), [TypeScript](#), [TensorFlowJS](#)

- Utilizes **React** and **TensorFlowJS** to run a pose-detection model in the browser on the user's webcam feed to track form, count repetitions, and trace joint path based on user selection
- User's can record their exercises, download the recording once finished, or take screenshots of their webcam feed
- Added a togglable view of the detection model and webcam, and currently supports tracking push-ups, pull-ups and squats

**Personal Website** | [Next.js](#), [TailwindCSS](#), [Typescript](#), [Netlify](#) | [tamzeedq.netlify.app/](https://tamzeedq.netlify.app/)

- Created a personal portfolio website containing an about page, project showcase, resume, and contact information
- Built using **Next.js** framework, styled with **Tailwind CSS**, and hosted on **Netlify**
- Incorporated responsive design to account for mobile view

**Fitness Tracker** | [Java](#), [Java Swing](#), [JUnit](#), [UML](#)

- Tracks your diet and workouts for a week including calories, protein, and personal notes using **OOP** and developed a GUI interface with Java Swing
- Created UML diagrams to demonstrate relationships between different classes and ensured functionality with JUnit testing

## Education

### University of British Columbia

Vancouver, British Columbia

BSc. Combined Computer Science and Statistics Major - Dean's List

Sep 2021 - Apr 2026

**Coursework:** Software Construction (**Java**), Algorithms & Data Structures (**C++**), Data Science (**R**), Computer Systems (**C**), Computer Hardware and Operating Systems (**C**), Applied Linear Algebra

## Technical Skills

**Programming:**

Java, Python, HTML, CSS, JavaScript, TypeScript, C++, C, SQL, R

**Frameworks and Database:**

React.js, Next.js, Electron, Flask, PostgreSQL

**Testing/Environment/Tools:**

JUnit, Jupyter Notebook, Jira, Confluence, Git, GitHub