

TAMZEED QUAZI

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Education

University of British Columbia

Sep 2021 – May 2026

BSc. Combined Major in Computer Science and Statistics

Dean's List

Experience

Software Engineer

Aug 2026 – Present

Mastercard

Vancouver, British Columbia

- Built a containerized local test environment for a fraud rules service using **Docker**, **Testcontainers**, and **Java gRPC** mocks, replacing unstable shared test environments
- Wrote functional tests for a **Spring Boot gRPC** service and updated them for a new **protobuf** contract

Undergraduate Research Assistant

Nov 2025 – Mar 2026

UBC Civil Engineering

Vancouver, British Columbia

- Developed a **Python** Streamlit app for water network resilience analysis, extending open-source simulation libraries in collaboration with their developers
- Reduced batch simulation runtime by $3.2\times$ through parallel processing and benchmarked solver performance
- Helped train a **PyTorch** autoencoder for water leak detection, achieving 97.5% accuracy on simulated data

Software Engineer Intern

May 2025 – Aug 2025

Mastercard

Vancouver, British Columbia

- Built a POC data quality service (**AWS Redshift**, **Java**, **Next.js**); featured in quarterly engineering highlights
- Finalist in internal hackathon for developing a tailored admin/applicant portal for Venture for Canada

Software Developer Co-op

Jan 2023 – Aug 2023

Tetra Tech

Vancouver, British Columbia

- Built a real-time hazard alert system using **Python**, **Next.js**, and **Azure Cloud Services**, serving 1,000+ users and reducing railway incident response time by 80%; the project earned the 2025 ACEC-BC Award of Excellence
- Architected a data pipeline for a **PyTorch** computer vision model, reducing original preprocessing times by 90%
- Optimized **PostgreSQL** database performance by integrating PostGIS, improving query performance by 30%

Additional Experience

Statistical Consultant (STAT 450)

Jan 2026 – Apr 2026

UBC Department of Statistics partnered with St. Paul's Hospital

Vancouver, British Columbia

- Analyzed how rurality, distance, and urgency relate to interhospital cardiac transfer times and patient mortality
- Analyzed 1,525 transfers using regression and ANOVA, addressing outcome-dependent missing data and rare mortality events; presented findings to clinical clients

Strategy Software Developer

Sep 2023 – Jan 2025

UBC Solar (Design Team)

Vancouver, British Columbia

- Built **Python** genetic algorithms to optimize race speeds and an **Electron/React** data visualization app, contributing to the team's highest-ever Formula Sun Grand Prix placement in 2024

Projects

Atlasic | TypeScript, Rust

- Built a VS Code extension, published on Marketplace, to map a codebase's dependencies as an interactive graph
- Implemented dependency parsing, graph visualization and VS Code API integration using **TypeScript**
- Placed as a finalist in nwHacks 2026, Western Canada's largest 24-hour hackathon

Skills

Languages: Java, Python, JavaScript, TypeScript, C++, C, R, SQL, Erlang

Frameworks & ML: React, Next.js, Node.js, Flask, PyTorch, TensorFlow, pandas

Cloud & DevOps: AWS (EC2, Redshift), Azure, PostgreSQL, Git, Docker, Jenkins, Linux, JUnit