

TAMZEED QUAZI

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Education

University of British Columbia

BSc. Combined Major in Computer Science and Statistics

Sep 2021 – May 2026

Dean's List

Experience

Software Engineer

Mastercard

Aug 2026 – Present

Vancouver, British Columbia

- Built a containerized local test environment for a fraud rules service using **Docker**, **Testcontainers** and **Java** gRPC mocks, replacing unstable shared environments
- Built the functional test suite for the service's **gRPC** API and migrated it to a new **protobuf** contract

Undergraduate Research Assistant

UBC Civil Engineering (Supervisors: Dr. Barbara Lence, Dr. Sudhir Kshirsagar)

Nov 2025 – Mar 2026

Vancouver, British Columbia

- Built a **Python** Streamlit app making water network resilience analysis accessible to non-programmers, extending open-source simulation libraries in consultation with their developers
- Cut batch simulation runtime by $3.2\times$ through parallel processing and benchmarked solver performance
- Helped train a **PyTorch** autoencoder for water leak detection that reached 97.5% accuracy on simulated data

Software Engineer Intern

Mastercard

May 2025 – Aug 2025

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

Tetra Tech

Jan 2023 – Aug 2023

Vancouver, British Columbia

- Addressed lack of real-time hazard monitoring by implementing full-stack alert system in **Python** and **Next.js**, reducing incident response time by 80% and received the 2025 ACEC-BC Award of Excellence
- Launched a web application to 1000+ users with **Azure VM** and **Blob Storage** services
- Architected a data pipeline for a **PyTorch** computer vision model, reducing original preprocessing times by 90%
- Optimized **PostgreSQL** database performance by implementing PostGIS, resulting in 30% faster query times

Club Experience

Statistical Consultant (STAT 450)

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

Jan 2026 – Apr 2026

Vancouver, British Columbia

- Investigated how rurality, distance and urgency affect interhospital cardiac transfer times and patient mortality
- Analyzed 1,525 transfers in a team of four using regression and ANOVA; presented a report to clinical clients
- Navigated outcome-dependent missing data and rare mortality events, using a distance proxy to avoid bias

Strategy Software Developer

UBC Solar (Design Team)

Sep 2023 – Jan 2025

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

Skills

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

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

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