



Michael DeMarco 3rd-year at UBC; formerly at Amazon, Samsung; 7-time TA

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Education

University of British Columbia, B.Sc. Honours
Computer Science (Co-op),
minor in Data Science

Expected Grad: Apr 2024

GPA: 4.33 (94%)

Coursework: Data Structures
and Algorithms (96%)

Computer Systems (95%)

Software Construction (95%)

Skills

TypeScript, Python, Java,
C, C++, SQL, NoSQL,
Node, React, Bash, Docker,
Kubernetes, Terraform,
AWS, Azure, GCP

Leadership, communication,
accountability, tenacity

Extracurriculars

Phi Gamma Delta,
Philanthropy Chairman
Jan 2022 to present

AMS of UBC Vancouver,

Food Bank Volunteer
May 2021 to Apr 2022

Major League Hacking,

Workshop Lead (3x)
Sep 2020 to present

Awards

Undergraduate Teaching
Assistant Award
May 2022

Trek Excellence Scholarship
(Top 5%)
Sep 2021

Djavad Mowafaghian
Presidential Scholar
Apr 2019

Work Experience

Software Engineer Intern (Incoming), *Tesla*

Palo Alto, California—Sep 2022 to Dec 2022 | [Site](#)

- Supporting the transition to sustainable energy on the Supercharging team.

Software Engineer Intern, *Amazon*

Toronto, Ontario—May 2022 to Aug 2022 | [Site](#)

- Enhanced user onboarding with tailored product tours in **React** frontend.
- Developed API using **TypeScript** and **Jest** with >95% code coverage.
- Introduced automated linting to surface and correct hundreds of type errors.

Undergraduate Teaching Assistant, *University of British Columbia*

Vancouver, British Columbia—Jan 2020 to Apr 2022 | [Site](#)

- Earned 100% favorable rating from 100+ students in previous semester.
- Taught six unique courses using **Racket**, **Python**, **R**, **C**, and **C++**.
- Refined instruction materials across 9+ lab sections led.

Software Engineer Intern, *Samsung*

Vancouver, British Columbia—Jan 2021 to Aug 2021 | [Site](#)

- Migrated monolith to service-oriented architecture with **React** and **Node**.
- Integrated headless UI library to streamline logic across 15+ dashboards.
- Improved test coverage from 70% to >90% across core **Node** services.
- Created **Node** service to transform data from an **ETL** pipeline and **Kafka** event stream into analytics rendered on **React** dashboard.
- Refactored **MongoDB** queries to improve performance by up to 50%.

Technical Projects

Showrooms, show off your desktop setup and make money from it

Vancouver, British Columbia—Jan 2021 | [Project](#) | [GitHub](#)

- Co-created app with **React** and **Node** to allow users to share desk setups.
- Earned 3rd overall prize at BizHacks 2021 against 50+ teams.

Visual Studio Code Puzzles, simplify technical interview problem practice

Vancouver, British Columbia—Jun 2020 | [Project](#) | [GitHub](#)

- Built tool to bring interview "puzzles" into an IDE using **TypeScript**.
- Won Microsoft's "Best Use of External API" award and has 170+ users.

Nominatr, facilitate paperless nominations for student elections

Vancouver, British Columbia—Mar 2020 | [Project](#) | [GitHub](#)

- Built tool to comb survey data and send bulk emails using **Java** and **AWS**.
- Sent 500+ emails in production saving 20+ hours of work for election team.

Interests

Linguistics, physics, economics, reading, soccer, jazz, piano