



## Michael DeMarco 3rd-year at UBC, currently at Amazon, 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*

J. Fred Muir Memorial  
Scholarship in Science  
*Sep 2021*

### 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](#)

- Enhancing 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 Electronics*

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