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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, 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 | <u>Site</u>

- 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

- \bullet Built tool to bring interview "puzzles" into an IDE using ${\bf TypeScript.}$
- \bullet 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 | $\underline{\text{Project}}$ | $\underline{\text{GitHub}}$

- 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.

RapViz, visualize 'bars' right in the browser Vancouver, British Columbia—Mar 2019 | Project | GitHub

- Built app to visualize rhyme schemes in rap using **React**, **Flask**, and **GCP**.
- Earned finalist distinction in the Entertainment Track at HackTech 2019.

Interests

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