Michael DeMarco 3rd-year at UBC, formerly at Samsung, 6-time TA

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Education

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

Expected Grad: May 2023
GPA: 4.33 (94%)
Coursework: Data Structures and Algorithms (96%)
Applied ML (97%)
Computer Systems (95%)
Software Construction (95%)

Skills

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

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

The Science Undergraduate Society,
Elections Administrator
May 2020 to Apr 2021

Awards

Trek Excellence Scholarship
Sep 2021

J. Fred Muir Memorial Scholarship in Science
Sep 2021

Djavad Mowafaghian Presidential Scholar
Apr 2019

Work Experience

Software Engineer Intern (Incoming), *Amazon*
Toronto, Ontario—May 2022 to present | Site

- Incoming full stack software engineer intern for the summer 2022 cycle, working on supply chain optimization.

Undergraduate Teaching Assistant, *University of British Columbia*
Vancouver, British Columbia—Jan 2020 to Apr 2022 | Site

- Taught six courses to date using **Racket, Python, R, C,** and **C++.**
- Received perfect evaluation scores from all 90+ students in most recent semester in categories including teaching ability and preparedness.
- Led labs, curated course readings, and relayed student needs to professor.

Software Engineer Intern (Product), *Samsung Electronics*
Vancouver, British Columbia—Jan 2021 to Aug 2021 | Site

- Contributed extensively to full stack re-write of legacy **Drupal** monolith using **Node, React,** and modern service-oriented architecture.
- Refactored 15+ dashboards to use custom hooks and headless UI library.
- Spearheaded effort to create novel **Node** service to render data from both an **ETL** pipeline and a **Kafka** event stream efficiently.
- Eliminated critical anti-patterns in **Mongo** aggregation queries to drastically reduce endpoint response times by up to 50%.

Technical Projects

weNote, a start-up focused on enhancing collaborative learning
Edmonton, Alberta—Jul 2021 | Project | GitHub

- Founded start-up that allows students to build lecture notes collaboratively.
- Utilized **React, Node,** and **Firebase** to create MVP in 3 months.

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 150+ 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