# Michael DeMarco  3rd-year at UBC, currently at Samsung, 5-time TA

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## Education

**University of British Columbia**, B.Sc. Computer Science, minor in Data Science

Expected Grad: May 2023
GPA: 4.33 (94%)
Coursework: Data Structures and Algorithms (96%), Statistical Inference (96%), Computer Systems (95%)

## Skills

Leadership, communication, accountability, tenacity

TypeScript, Python, R, Java, Node, React, Mongo, Bash, PostgreSQL, Docker, AWS, Azure, Git, Jira

## Activities & Societies

**The C.O.D.E. Initiative,**
Research and Design
*Apr 2021 to present*

**Phi Gamma Delta,**
Scholarship Chairman
*Jan 2020 to present*

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

## Awards

Science Scholar/
Dean's Honour List
*May 2020, May 2021*

J. Fred Muir Memorial Scholarship in Science
*Sep 2020*

Djavad Mowafaghian Presidential Scholar
*Apr 2019*

## Experience

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

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

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

**Software Engineer Intern (Product),** *Artesian Software*
Calgary, Alberta—May 2020 to Aug 2020 | Site

- Implemented **Node** services to process over $50,000+ in customer transactions via the Stripe API, manage survey data, and interface with **PostgreSQL** database.
- Created, styled, and tested numerous **React** components with **Sass** and **Jest.**
- Developed and deployed COVID-19 related app from scratch in 3 months which attracted early investment from Reno Chamber of Commerce, among others.

## Projects

**Showrooms,** show-off your desktop setup and make money from it
Vancouver, British Columbia—Jan 2021 | Project | GitHub

- Co-created web-app to allow users to take 3D photos of their desk setup and share online with Amazon-style affiliate links.
- Earned 3rd overall prize at BizHacks 2021 against 50+ teams.

**Visual Studio Code Puzzles,** simplify technical interview problem practice
Edmonton, Alberta—June 2020 | Project | GitHub

- Built tool to bring coding interview "puzzles" into VS Code using TypeScript.
- Won Microsoft-sponsored "Best Use of External API" award and has 75+ users.

**jCite,** manage research papers and generate citations
Vancouver, British Columbia—Apr 2020 | Project | GitHub

- Developed desktop clone of Zotero using Java to help scholars manage research.
- Achieved 100% code coverage in JUnit to prevent future regressions.

## Interests

Backend development, data science, natural language processing, linguistics, economics, physics, reading, writing, podcasts, soccer, piano