



# E.M. Sim

## UBC Computer Science

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### TECHNICAL SKILLS

**Languages:** Java, JavaScript, BASH, HTML, CSS, Racket, C++, C, PHP, R

**Tools:** Git, IntelliJ, VSCode, JUnit, Confluence, Adobe, ReactJS, Swing, Excel, Oracle

### WORK EXPERIENCE

#### Undergraduate Teaching Assistant

Sept 2023 - Dec 2023

#### UBC: COMM 388 - Design Methods for Business Innovation

- Assisted Undergraduates in applying business design strategies under the guidance of Professor Dharini Thiruchittampalam

#### Software Developer Intern

Jul 2021 - Mar 2022

#### Faster Than Light Computing

- Used BASH scripting to automate the integration of a NAC into the deployment of company services, enabling remote configuration of switches and VLANs.
- Created a solution for tech support to approve devices into VLANs remotely and configure ports to the connected device automatically improving support efficiency.
- Worked under the guidance of a senior developer, gaining knowledge in network administration.

#### Communications Committee Lead

Jan 2021 - Apr 2021

#### Skoden Indigenous Film Festival

- Created the strategy for promotional communications resulting in increased festival attendance from the previous year
- Delegated tasks to team members and outlined best practices for project execution
- Formed relationships with community groups and news outlets increasing press coverage

#### Communications Assistant

May 2019 - Aug 2020

#### Simon Fraser University

- Managed public facing digital platforms and created targeted campaigns resulting in a consistent increase in engagement
- Formed relationships with faculty, campus groups, and other SFU departments to identify and promote student resources
- Coordinated and executed orientation event logistics for students

### TECHNICAL PROJECTS

#### The Community Garden Database

Feb 2023 - Apr 2023

#### CPSC 304 (Relational Databases) Final Project

- Implemented a web application, using a database for community garden planning,, which allows querying for information about local community gardens, plants, and garden plot locations
- Implemented the functionalities of the application by using 10 SQL queries and used Oracle's SQLPlus to test queries
- Used HTML and PHP to build the GUI of application

#### WearWise Application

Feb 2023 - Apr 2023

#### CPSC 210 (Software Construction) Final Project

- Developed Java-based functionality to allow users to track clothing wear count over time, generating data on cost per wear.
- Tested with JUnit, using debugging techniques and test-driven development.
- Utilized JSON parsing skills to model data presented in JSON format.

### EDUCATION

#### University of British Columbia

Sept 2022 - Present

#### Bachelor of Computer Science (Second Degree Program)

- Relevant Courses:** Intermediate Algorithm Design and Analysis, Basic Algorithms and Data Structures, Software Construction, Systemic Programming Design, Models of Computation, Introduction to Computer Systems, Relational Databases
- Hackathons:** cmd-f by NW hacks 2023, Hack the Change 2022

#### Simon Fraser University

Sept 2015 - May 2021

#### Bachelor of Arts - Communication Major