

PROGRAMMING SKILLS

- **Programming Languages:** Java, C++, C, TypeScript(JavaScript), Racket, Python, MySQL, L^AT_EX
- **Tools & Framework:** Git, Node.js, Mocha, Vscode, IntelliJ, JUnit, MySQL, JDBC, Selenium

SELECTED WORK EXPERIENCE

- **Software Developer** Vancouver, BC
Building Blocks March 2021 – present
 - Working in the frontend team with agile development environments.
 - Using Trello to create and assign user stories.
- **Teaching Assistant for CPSC121 / CPSC213** Vancouver, BC
Department of Computer Science, UBC Jan 2020 – present
 - Directed labs, tutorials; Held weekly office hours; Assisted over 200 students in understanding course concepts.
 - Held weekly meetings to discuss online teaching issues and ways to improve.
- **CS Instructor** Vancouver, BC
Easy Education Vancouver Sept 2020 - Jan 2021
 - Designed the entire Software Software Construction tutoring material for college level students, including the UML diagrams, Object-oriented programming knowledge, design principles and design patterns. Improved their overall grades from C to A.
 - Inspired students with new idea on the course project. Taught them how to debug on their project.

SELECTED PROJECTS

- **Flybook (Workspace Application)** Java, JUnit, JDBC, MySQL, IntelliJ Sept-Dec 2020
 - Developed a Java application that simulates work scheduling on meetings while allowing the social networking functionality on an enterprise level.
 - Managed to delete, update, and store all the information using JDBC and MySQL queries.
 - Embedded Aggregation and Division queries to achieve useful functionalities.
- **Insight UBC Query System** TypeScript, Node.js, Mocha, Git, IntelliJ Sept-Dec 2020
 - Developed a Web application with rest endpoints using TypeScript; Implemented a query engine that can parse and query UBC courses and room data according to the chosen constraints.
 - Implemented a data controller that can parse HTML and JSON data and a query controller that handles queries in the form of JSON Object.
 - Followed Test-Driven Development process, and wrote Robust tests for both backend and frontend
- **MiniRacket Compiler** Racket Jan-April 2021
 - A Compiler for a subset of Racket to machine language (x86-64 CPU instruction set with Linux system calls). This includes the phase of intermediate representation, code generation and optimization.
 - Wrote Robust Unit tests for each compiling pass.

EDUCATION

- **University of British Columbia** Vancouver, BC
Bachelor of Science, Honors in Computer Science September 2018 – April 2023 (expected)
 - **Grade Average (Cummulative):** 90.3%

AWARDS

- **Trek Excellent Scholarship, UBC** 2019/2020
- **Dean's Honor list** 2020