Kaiyuan Yang

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Programming Skills

- Programming Languages: C++, Java, C#, TypeScript(JavaScript), Racket, Python, MySQL, LATEX
- Technologies: Git, Node.js, React, Microsoft Azure, .NET, Visual Studio Code, Azure Data Studio, Docker

SELECTED WORK EXPERIENCE

Web Developer Co-op

Vancouver, BC

May 2021 - present

- BGC Engineering Inc.
 - Worked as a full stack developer on Cambio[™], BGC Engineering's geohazard risk management software using TypeScript, C#, and SQL Server.
 - Refactored the identify Tool service to enable customize features for different clients.
 - Fixed numerous bugs in both front and back end of the Cambio code.
 - Implemented Drawing Widgets on the React Esri Map with addition features on labeling and saving.

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 Tutor

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 and Debugging. Improved their overall grades from C to A.

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, Vscode

Sept-Dec 2020

- Developed a Web application with rest endpoints using TypeScript;
- Implemented a data controller that can parse HTML and JSON data and a query engine that handles queries in the form of JSON Object.
- o 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): 90.8%

AWARDS

• Trek Excellent Scholarship

2019/2020

• Dean's Honor list/ Science Scholar

2020/2021