Kaiyuan Yang

Computer Science, Year 3

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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, Agile

Work Experience

Web Developer Co-op BGC Engineering Inc.

Vancouver, BC

 $May\ 2021-present$

- \circ Working as a full stack developer on Cambio[™] project in an agile environment, using TypeScript, C#, and SQL Server.
- Implementing Sketch Widget with addition features based on the Arcgis Javascript API.
- Refactored the identify Tool service to enable customized template for different clients.
- Reduced the JIRA backlog bug ticket by 10%.

Teaching Assistant

Vancouver, BC Jan 2020 – present

Department of Computer Science, UBC

∘ CPSC313:

• **CPSC121:** *Model of Computation*

Computer Systems

• CPSC213:

Computer Hardware and OS

o Directing tutorials for more than 200 3rd year students; Holding weekly office hours.

Projects

• Insight UBC Query System TypeScript, Node.js, Mocha, Git, Vscode

 $Sept ext{-}Dec~2020$

- 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.
- Followed Test-Driven Development process, and wrote Robust tests for both backend and frontend.
- 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.

• MiniRacket Compiler Racket

Jan-April 2021

- Developed 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

• Charles and Jane Banks Scholarship

2021