Kaiyuan Yang

Computer Science, Year 3

ubc science co-op
T: 604.822.9677 | F: 604.822.9676 | science.coop@ubc.ca | www.sciencecoop.ubc.ca

Email:yang.k.yuan@gmail.com Linkedin: kaiy-yang Mobile: (236) 833-5418

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

- **Software Engineer Intern** Vancouver, BC
  Salesforce *Jan 2022 - April 2022*
  - Working in the Lightning Reports team, a full stack team.
- **Web Developer Co-op** Vancouver, BC
  BGC Engineering Inc. *May 2021 – present*
  - Worked as a full stack developer on Cambio™ in an agile environment, using TypeScript React, C#.
  - 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
  Department of Computer Science, UBC *Jan 2020 – present*
  - **CPSC121:** *Model of Computation*
  - **CPSC213:** *Computer Systems*
  - **CPSC313:** *Computer Hardware and OS*
  - 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-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*
- **Faculty of Science International Student Scholarship** *2021*