# Kaiyuan Yang

*Computer Science, Year 4*

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## Education

- **University of British Columbia** Vancouver, BC
  *Bachelor of Science, Computer Science* *September 2018 – April 2023 (expected)*
  - **Grade Average (Cummulative)**: 90.8%

## Work Experience

- **Software Engineer Intern** Remote
  *Coinbase* *May 2022 – Sept 2022*
  - Implemented the business logic on bitcoin incentive activation email for direct deposit account, which incresed the MTU by 10%.
  - Implemented the backend logic for direct depositing payroll as multiple different crpyto assets
  - Migrated the CRUD traffic on Direct Deposit Account from Ruby to Go, including data migration, graphQL endpoint redirect and service api implementation.
  - Designed and added metrics to better monitor and alert the direct deposit account traffic health.
- **Software Engineer Intern** Vancouver, BC
  *Salesforce* *Jan 2022 – April 2022*
  - Implemented row limit filter in Lightning Reports which closed the gap from Salesforce Classic Reports.
  - Devised frontend test suite with unit and snapshot tests, improving code coverage in Javascript and Jest.
- **Software Engineer Intern** Vancouver, BC
  *BGC Engineering Inc.* *May 2021 – Dec 2021*
  - Implemented the sketch & sketch save features on the Cambio™ map with Arcgis API.
  - Refactored the identify Tool Service in Cambio to enable customized template for different clients and reduce the payload by 50%.
- **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 400 CS students; Holding weekly office hours.

## Selected 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 controller that can parse HTML & JSON data and a query engine that handles queries
  - Followed Test-Driven Development process, and wrote Robust tests for both backend and frontend.
- **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.

## Programming Skills

- **Programming Languages**: Go, Java, C++, C#, TypeScript(JavaScript), Python, SQL
- **Technologies**: React, Datadog, Snowflake, Microsoft Azure, .NET, vscode, Agile

## Awards

- **Trek Excellent Scholarship** *2019/2020*
- **Dean's Honor list/ Science Scholar** *2020/2021*
- **Charles and Jane Banks Scholarship** *2021/2022*
- **Faculty of Science International Student Scholarship** *2021/2022*