Yifei **Xiao**

Software Engineer · UBC Computer Science

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Skills

Programming	Python, JavaScript, TypeScript, Java, C++, SQL, LookML, HTML/CSS, Latex
Frameworks	Node.js, JUnit, React, Jest, JQuery
Developer Tools	Git, Linux, PostgreSQL, MS SQL Server, Docker, Postman, Looker, VS Code, Visual Studio, IntelliJ, Eclipse

Experience

Alida   *Vancouver, British Columbia*
Software Developer Intern   *Jan 2022 - Aug 2022*

- Implemented features for new Dashboard type that simplified and streamlined the existing dashboard creation workflow.
- Designed and implemented features for a quarterly release project. Conducted research and scoping of work for new project in collaboration with lead engineer and product manager
- Led planning and story breakdown for an epic as a part of a product refresh. Coordinated assignment of tasks with senior developers and product manager.
- Developed REST APIs using Postman and PostgreSQL to interact with data lakes. Implemented ETL process for processing of retrieved data.

Intel   *Vancouver, British Columbia*
Python Developer Intern   *Sep 2019 - May 2020*

- Developed a fully automated pipeline in python that added a new Formal Verification flow to aid ASIC Developers in verification of design specifications.
- Built virtual hardware components to match design specifications and tests in SystemVerilog
- Designed accurate assertion tests and coordinated with other block members to ensure design specifications were met.

Calgary Board of Education   *Calgary, Alberta*
Mechanical CADD Teacher Assistant   *Sep 2016 - Jun 2017*

- Assisted students of the course in building 3D models using the Autodesk Inventor Software.
- Designed the website for the course in collaboration with school staff and other TA's.
- Built example 3D models to assist students in understanding of the course content.

Glow: JA Southern Alberta Student Company   *Calgary, Alberta*
Website Designer   *Oct 2016 - Mar 2017*

- Designed the company website in collaboration with other members of the same department.
- Collaborated with members of other departments to update website and social media platforms.
- Awarded the "Company of the Year" award by JA Southern Alberta.

Projects

UBC Courses Query   *Calgary, Alberta*
Technologies: Typescript, HTML   *Sep. 2020 - Jan 2021*

- Designed a UI that allowed users to enter specifications to filter through a UBC courses data set and returned courses relevant to the inputted filters.
- Parsed data sets in the form of zip files using JSZip and processed into JSON files for querying.
- Utilized parse5 to obtain locations for each course from the UBC Wayfinding website.
- Built a scheduler algorithm that scheduled course sections into available classrooms while maximizing student enrollment and minimizing distance between classes.

Image Filler   *Vancouver, British Columbia*
Technologies: C++   *Feb 2019 - Mar 2019*

- Built a tool that allowed the user to fill a region of a PNG with a set color or pattern
- Designed the filler around DFS and BFS, incorporating both into algorithms that filled the PNG in differing patterns.
- Implemented the region detection algorithm around a set difference between the starting pixel and surrounding pixels based on values of hue, saturation, and luminance.

Education

University of British Columbia   *Vancouver, British Columbia*
Bachelor of Science in Computer Science   *Sep 2017 - current*

- Anticipated Graduation: May 2023