

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