

YIFEI XIAO

Software Engineer • Vancouver, British Columbia, Canada

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Experience

Alida Jan 2022 – Aug 2022
Software Developer Intern Vancouver, BC

- Developed the Oneclick Dashboard, reducing the Dashboard creation time by 75%.
- Led development for a mobile data analytics project. Implemented ETL pipeline to enrich and ingest mobile data into analytics data warehouse. Completed implementation within 80% of scoped time.
- Independently managed planning and research for a project that kicked off the revamping of Analytics UI. Coordinated assignment of tasks with senior developers and product manager.
- Produced bug fixes for customer impacting issues, efficiently closing over 70 user stories within the 8-month term.

Intel Sept 2019 – May 2020
Python Developer Intern Vancouver, BC

- 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 Sept 2016 – Jun 2017
Mechanical CADD Teacher Assistant Calgary, AB

- Assisted students of the course in building 3D models using the Autodesk Inventor Software.
- Actively contributed in the development of the promotion 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 Oct 2016 – Mar 2017
Website Designer Calgary, AB

- Designed the company website in collaboration with marketing and product design teams.
- 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 | *TypeScript, JavaScript, Jest, JQuery* Sept 2020 – Jan 2021

- Designed a UI that allows users to enter specifications to filter through a UBC courses data set and return 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 | *C++* Feb 2019 – Mar 2019

- Built a program that allows 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 fills the PNG in differing patterns.
- Implemented the fill region detection algorithm around a difference threshold between the starting pixel and surrounding pixels based on values of hue, saturation, and luminance.

Skills

Languages: 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

Education

University of British Columbia Sept 2017 - May 2023
Bachelor of Science in Computer Science Vancouver, BC