

# Alex Wu

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## TECHNICAL SKILLS

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**Languages:** Java, C, C++, Python, JavaScript, TypeScript, HTML, CSS, SQL, PHP

**Frameworks:** React, Node.js, MongoDB, Express.js, Flask, Vue.js, JUnit5, Java Swing, Pandas, gspread

**Developer Tools:** Git/Github, VS Code, Visual Studio, PyCharm, IntelliJ, R Studio

## EXPERIENCE

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### Full-Stack Software Engineer Intern

Jan 2024 – Present

*Supporting Lines* | [supportinglines.com](https://supportinglines.com)

Vancouver, BC

- Built web application powered by **Next.js** and hosted using **Google App Engine**
- Architected and built **SQL (Google Cloud MySQL)** and **NoSQL (Firestore)** database to store customer data
- Bootstrapped **Cypress** and **Jest** testing frameworks, and created unit, integration and e2e tests
- Integrated production-grade tools including **Auth0**, **Knex.js**, **Typescript** to write high-quality, secure code

### Software Developer

Apr 2023 – Present

*Enactus UBC* | [enactusubc.ca](https://enactusubc.ca)

Vancouver, BC

- Led UI design team by modelling and implementing high-fidelity mock-ups following a **mobile-first approach**
- Increased site traffic by **175%** through relentless SEO-optimized web development and consistent updates
- Developed a Slack bot with **JavaScript**, **Slack API**, **GSpread**, **OpenAI** to automate hours-tracking via Slack
- Enhanced data processing efficiency by optimizing **Excel** functions achieving a **70%** faster data analysis rate
- Reduced work time from 9 hours to 15 minutes by developing **Python** algorithm optimizing workshop scheduling
- Optimized code maintenance through creation of **15+ reusable components** and deployment of new features

## PROJECTS

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### Campus Coin | *MongoDB, Express, React, Node.js*

Aug 2023

- Created a Money Tracker App for student expense tracking, savings growth, and financial insights
- Optimized a **React** app with 13+ components, reducing prop-passing by **80%** leading to enhanced performance
- Employed **Redux** for state management, optimizing data flow and enhancing app responsiveness

### Room Rover | *Node.js, Javascript, Puppeteer API*

Jun 2023

- Engineered a bot utilizing the **Puppeteer API**, to facilitate study room bookings at a local library
- Streamlined the booking process by reducing the average booking time from **2 minutes to 2 seconds**
- Used Puppeteer to automate site interactions, securing study room reservations with **99.7% accuracy**

### NBA Fantasy Draft Simulator | *Java, Java Swing, JUnit 5*

Jan 2023

- Accelerated development by following one-week sprints to implement both a terminal and GUI based application
- Applied **test-driven development** to implement 7 user stories, achieving 100% unit test coverage for all classes
- Managed **mock JSON database**, creating method to save and load data from disk

### BeSmart | *Python, Figma, Git*

Sep 2022

- Engineered a reminder system prompting users to answer a set of homework questions throughout the day
- Implemented a **Python**-based question and answer system to facilitate seamless data management
- Awarded **Best UI/UX Design** among 100+ participants at the 2022 UBC BizTech Hello Hacks Hackathon

## EDUCATION

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### University of British Columbia

Expected Graduation: May 2025

*Bachelors in Computer Science and Business*

Vancouver, BC

- Relevant Coursework:** Data Structures and Algorithms, Operating Systems, Relational Databases, OOP
- Awards:** JDC Junior Development Competition (2nd Place), National Strategy Case Competition (Semi-Finalist)

## HOBBIES & INTERESTS

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**Ultimate Frisbee:** Led high school team to consecutive Surrey Championships, coached and led junior team to a second place title, and currently captaining a tier 2 Vancouver Ultimate League team

**Interests:** Cooking, Travelling, Fitness, NBA/AUDL, Videography, Investing, Gaming