

Allan Xing

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EDUCATION

University of British Columbia

Graduating Dec 2025

Bachelor of Science, Computer Science Major

Vancouver, BC

- Cumulative **3.9 GPA**, Dean's Honor List (**x2**)
- Relevant Coursework: Software Engineering, Data Structures and Algorithms, Computer Architecture, OOP, Relational Databases, Computer Networking, Statistics, Linear Algebra

EXPERIENCE

SAP

Jan 2023 – Aug 2023

Software Engineer Intern

Vancouver, BC

- Developed a Slack Bot using **Python** to automatically rebase commits and re-trigger tests after business hours, increasing efficiency and speeding up CI/CD workflows by up to **40%**.
- Optimized load times for tables and charts by **30%** through the implementation of server-side rendering and lazy loading techniques, enhancing user experience and reducing client memory usage by **10%**.
- Built robust integration tests using **Jasmine** and **Mocha** for **10+** user-stories, identifying and addressing **4** critical issues before production, ensuring higher quality releases and preventing delays.
- Implemented fixes for **15+** bugs by addressing logic errors and improving error handling mechanisms.

BCharity

Jun 2022 – Aug 2022

Software Developer Intern

Calgary, AB

- Adopted **Lens Protocol** and **Next.js** to implement a Web3 fundraising system, processing **\$40,000** in donations
- Designed **GraphQL** queries and built corresponding front-end components, ensuring efficient updates and retrieval of on-chain data.
- Utilized **Ethers.js** to enable wallet connectivity, enabling users to stake tokens and interact with fundraisers.

PROJECTS

Portfolio Tracker | *Stripe, AWS, Next.js, Express.js* |

Present

- Architected a comprehensive full-stack solution for tracking investment portfolios across multiple asset classes.
- Implemented a secure authentication system using **Google OAuth 2.0** using **JWTs**, improving session management and enhancing user security.
- Integrated a **Stripe** payment system, enabling seamless one-time payments for premium services.
- Deployed servers using **AWS EC2** and managed the database with **RDS**, ensuring automatic scaling, load balancing, and simplified management.
- Analyzed feature trade-offs and prioritized impactful tasks to ensure timely delivery of a functional product.

Twitter Clone | *Node.js, React, PostgreSQL, Express.js, Docker* |

Nov 2023

- Designed a comprehensive relational database schema, ensuring data integrity and optimal normalization.
- Pioneered a responsive UI utilizing **React** and **TailwindCSS**, facilitating direct messaging with **Socket.io**.
- Implemented secure authentication with **Passport.js** and **Bcrypt**, supporting different kinds of user accounts.
- Conceived efficient RESTful APIs tailored for the platform, allowing for multimedia storage using BLOBs.

GPT Chatbot | *Python* |

Jun 2023

- Created an interactive chatbot using **Python** and **OpenAI's GPT-4 Turbo** advanced language model.
- Integrated WhisperAI and an audio engine to process user audio and generate speech outputs in various languages
- Enhanced the bot's capabilities by implementing long-term data persistence between sessions.

Block Run - 3D Infinite Runner Mobile Game | *C#, Unity* |

Feb 2023

- Built a 3D infinite runner game in Unity with **C#**, incorporating random terrain generation algorithms.
- Utilized the Singleton pattern to create manager classes, centralizing control over game mechanics.
- Constructed a UI for the inventory and shop systems with dynamic updates upon user interaction.

TECHNICAL SKILLS

Languages: C++, C, Java, JavaScript, Python, C#, Lua, SQL, HTML/CSS, GraphQL

Frameworks: React.js, Vue.js, Next.js, Node.js, Express.js, Passport.js, Mocha, Jasmine

Databases/Tools: AWS, Stripe, PostgreSQL, Git, Linux/UNIX, Bash, Docker, Unity, Excel