

Alex Yang

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EDUCATION

University of British Columbia

Bachelor of Science - Computer Science (Co-op); GPA: 85%

Expected May 2027

Vancouver, BC

TECHNICAL SKILLS

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

Frameworks & Libraries: Spring Boot, gRPC, React, Node.js, Express.js, Next.js, Mongoose, JUnit, pytest

Tools & Technologies: Git, Kafka, PostgreSQL, MongoDB, Amazon Web Services (AWS), Docker, Linux, npm, Jira

TECHNICAL EXPERIENCE

Shopify

Software Engineer Intern

Jan. 2026 – Apr. 2026

Toronto, ON

- Incoming full-stack engineering intern on the Website Platform team, working with **Ruby on Rails**, **React**, and **GraphQL** to build core services used by millions of merchants

Safe Software

Software Developer Intern

Sept. 2025 – Dec. 2025

Surrey, BC

- Developed **Python** scripts to scan internal library dependencies using data from the NIST vulnerability database, implementing version parsing and rate limiting to identify security issues and achieve **95%** scan accuracy
- Optimized Python scanning scripts with caching, de-duplication, and multithreading, reducing runtime by **35x**
- Integrated **Jira** and **Slack APIs** into security pipelines to automatically create issue tickets and send alerts for new vulnerabilities detected in third-party components, eliminating **90%** of manual triage work
- Built a test suite from scratch with **130+** unit and integration tests using **pytest** to validate end-to-end functionality of an internal vulnerability scanning system, achieving **100%** code coverage and preventing regressions

Cadabble

Software Engineer Intern

Feb. 2025 – Mar. 2025

Remote

- Implemented **Next.js** backend API routes connected to a **Prisma**-managed **Neon Postgres** database, enabling real-time ingestion of service submissions from **20+** agents and unblocking downstream processing
- Integrated **Cloudinary** for image uploads, offloading media handling and improving API responsiveness by **1.5x**
- Optimized frontend components by implementing **Next.js** lazy loading, reducing visual layout shifts by **80%**

PROJECTS

Patient Management System | *Java, Spring Boot, Kafka, PostgreSQL, Docker, AWS*

[GitHub](#) | May 2025

- Built a microservices system with patient, billing, and auth services, supporting **REST** and **gRPC** communication
- Deployed **PostgreSQL** in **Docker** containers on **AWS** with health checks and persistent storage
- Wrote integration tests to enhance system reliability using **JUnit** and **REST Assured**

WasteNot (nwHacks2025) | *React.js, Node.js, Express.js, MongoDB*

[GitHub](#) | [Website](#) | Jan. 2025

- Spearheaded a **full-stack web app** that generates recipe ideas from user-provided ingredients
- Secured user data with **JWT** authentication and **bcrypt** for password hashing
- Worked with **2** teammates, ranking among the **top 10** of 81 submissions for the Telus Sponsor Prize at **nwHacks**

ExpressMart (E-commerce App) | *React.js, Node.js, Express.js, MongoDB*

[GitHub](#) | [Website](#) | Jan. 2025

- Engineered a **RESTful API** backend, implementing database queries to handle **CRUD** operations
- Built frontend using **React.js**, leveraging **React Hooks** to fetch product data and manage form inputs

Komorebi (Discord Bot) | *JavaScript, Node.js, Discord.js, MongoDB, Mongoose*

[GitHub](#) | [Website](#) | Aug. 2024

- Built **34** commands, including moderation tools and a user economy system, increasing server engagement by **40%**
- Implemented real-time event handling for commands using **Discord.js**, reducing command latency by **25%**
- Scaled the bot to **30+** Discord servers with **13,000+** unique users, maintaining a **99.9%** uptime using **AWS EC2**

LEADERSHIP EXPERIENCE

Executive Director of Graphic Design | *Project Hastings*

Sep. 2021 – Jan. 2023

- Managed design team to deliver visuals through cross-department collaboration, ensuring brand consistency

Sergeant Air Cadet | *Royal Canadian Air Cadets*

Sep. 2018 – Jun. 2022

- Led and instructed junior cadets, enhancing team discipline and performance through effective mentorship