

Andy Chen

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EDUCATION

- University of British Columbia** Vancouver, BC
Bachelor of Science in Computer Science *Expected Graduation May 2026*

TECHNICAL PROJECTS

- AI Code Tutor** *June 2024 - Present*
Ollama, Mistral LLM, Node.js, Express, React, Clerk, MongoDB
 - Designed and developed a full-stack AI-assisted web application that teaches coding.
 - Used Mistral LLM to interpret user descriptions of code snippets to generate executable code to test user's knowledge of code.
 - Implemented code sandboxing for asynchronous execution of user-submitted prompt in a controlled environment, preventing privilege escalation and code injection attacks.
- Discord Music Player** *Dec 2023 - Jan 2024*
Java, Java Discord API, Lavaplayer API, Apache Maven
 - Using JDA and Lavaplayer API, built a responsive discord bot application that takes, and plays music requests; is responsive to both YouTube and SoundCloud URL and searches songs by name.
 - Utilized Apache Maven to handle dependencies and used Git to document changes.
- 3D Interactive Personal Website** *Jul 2024*
JavaScript, React, Three.js, Tailwind, Lenis, GSAP
 - Developed a personal landing page featuring immersive user interactions with 3D objects.
 - Implemented magnetic buttons and smooth scroll using GSAP and Lenis.
 - Attracted 500+ unique user visits within the first month of deployment.
- League of Legends Statistic Tracker (NWHacks 2024)** *Jan 2024*
React, Node.js, Express, MongoDB, Riot API, Data Dragon
 - Working in a team of three, loaded and wrangled data obtained from Riot's Data Dragon using MongoDB.
 - Using routers, controllers, and services, modularized and implemented backend code.
 - Established full-stack functionality within 24-hours of development for the NWHacks 2024 Hackathon.

TECHNICAL EXTRACURRICULAR ACTIVITIES

- Front-End Development** *Jan 2024*
NWHacks
 - Collaborated with a multi-talented team of three to design and implement a full-stack design.
 - Demonstrated problem-solving skills by addressing challenges in real-time and proposing innovative solutions together with teammates.
 - Effectively communicated and adapted to a fast-paced, time-constrained work environment.

NON-TECHNICAL WORK EXPERIENCE

- English Instructor** *Aug 2022 - Oct 2022*
Kumon
 - Taught classes of 8-15 children Elementary level English.
 - Established a strong leadership role by proactively fostering a collaborative and inclusive learning community.

TECHNICAL SKILLS

- Languages:** Python, Java, JavaScript, R, Apache Maven, Racket, C , C++, HTML, CSS
Technologies: Express, React, Github, MongoDB, Next.js, Node.js, Vite, Tailwind, Mocha, Jest