Andy Chen

http://www.github.com/AndyC2513

Email : ychen276@students.cs.ubc.ca

Mobile : +1-778-522-9899

EDUCATION

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

PERSONAL PROJECTS

- **AI Code Tutor**
  Ollama, Mistral LLM, Node.js, Express, React, Clerk, MongoDB — *June 2024 - Present*
  - Working in a team, designed and created a full-stack AI-assisted code tutoring web app
  - Used Mistral LLM to interpret user descriptions of code snippets to generate executable code to test user knowledge of code
  - Implemented code sandboxing to ensure the secure execution of user-submitted code within a controlled environment

- **Personal Budget Manager**
  Java, Swing, JUnit — *Sep 2023 - Jan 2024*
  - Designed and built a full stack application that generates and limits budgets from user-inputted data
  - Used JUnit to test and debug realistic use cases
  - Used Java Swing library to create an user-friendly front-end UI

- **Discord Music Player**
  Java, Java Discord API, Lavaplayer API, Apache Maven — *Dec 2023 - Jan 2024*
  - 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.

- **Statistic Analysis of Professional Tennis Player Rankings**
  R, Jupyter Notebook — *Sep 2022 - Jan 2023*
  - Working with four colleagues, wrangled and analyzed a dataset using R.
  - Closely documented the entire process in Jupyter Notebook
  - Provided detailed rationale as well as effective matrices and tables that accurately represent our findings.

- **League of Legends Statistic Tracker**
  React, Node.js, Express, MongoDB, Riot API, Data Dragon — *Jan 2024 - Feb 2024*
  - 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.

EXPERIENCE

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

- **Front-End Development**
  NWHacks — *Jan 2024*
  - 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.

PROGRAMMING SKILLS

- **Languages**: Java, JavaScript, R, LaTeX, Apache Maven, Racket, C , C++
  Technologies: Express, React, IntelliJ IDEA, VSCode, Jupyter Notebook, MongoDB