

# Caleb Cha

416-616-0407 | junoocha@gmail.com | <https://github.com/junoocha> | [Portfolio](#) | [LinkedIn](#)

## EDUCATION

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**Western University**, London, ON, Canada - B.Sc. Computer Science (Expected Oct 2025) 2021 - 2025

- Cumulative GPA: 3.8
- Awards/Scholarships: Western Scholarship of Distinction (2021), Canada Post Scholarship (2021).
- Other Academic Accolades: Dean's Honor List (2021 - 2024).

**Coursework:** Algorithms, Databases, Web Development, Operating Systems, Agile Software Development.

## WORK EXPERIENCE

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**UBILD** Jul - Dec 2024

*Full Stack Intern - React, Next.js, Supabase, TypeScript*

- Engineered and launched a fully functional admin panel integrated with Supabase from scratch.
- Developed and optimized API endpoints to retrieve new data types and expand data access across the platform.
- Refactored user data rendering and optimized profile upload/display for better UX.
- Integrated Playwright tests into the CI pipeline to verify login stability across GitHub merges.

**Enki** Aug 2023 - Jul 2024

*Course Developer - Lua, Java, Python, Git*

- Developed and published an entire course on Roblox Scripting and Lua.
- Revamped outdated curricula on Python and Java for improved clarity and engagement.
- Collaborated closely with senior developers via Git to streamline course content.

## PROJECTS

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**WormScans** Jul - Oct 2025

*Manga/Manhwa Reader Platform | Next.js, React, Supabase, TypeScript, Python, Playwright*

<https://www.wormscans.ca/>

- Automated chapter scraping using Python + Playwright to streamline uploads and reduce manual work.
- Implemented responsive UI with filtering, search, and chapter navigation for an optimized reading experience.
- Integrated Supabase authentication with admin key protection and authorization tokens for secure data access.

**Symmetrical Fractal Tree Generator** Jul 2025

*Fractal Tree Visualizer | React, Next.js, TypeScript*

<https://fractal-tree-gen.vercel.app/>

- Developed an interactive fractal tree generator with real-time controls, animation, and mobile support.
- Implemented a recursive binary tree rendering algorithm with frame-based animation using React hooks.
- Designed smooth drag and zoom gestures for responsive interaction on both desktop and mobile.

**DnD Stat Setter** Jun 2025

*Tool for setting Dungeons & Dragons stats | React, Next.js, Supabase, TypeScript*

<https://the-better-dnd-setter.vercel.app/>

- Transformed simple processes (e.g., stat assignment) into a visually appealing and modern interface.
- Utilized REST APIs and Supabase backend for data management.
- Implemented Next.js API routing and deployed the app using Vercel.

## TECHNICAL SKILLS

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**Languages:** Python, Java, Lua, HTML, CSS, JavaScript, TypeScript, MySQL, C, C++, PHP.

**Frameworks:** React, Node, Next.js.

**Tools:** Git, Supabase, Playwright, Vercel