

Caleb Cha

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EDUCATION

Western University, London, ON, Canada - B.Sc. Computer Science

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

UBILD

Jul - Dec 2024

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

Toronto, Ontario

- Built a Supabase-integrated admin panel from scratch, improving user data retrieval efficiency by 30%.
- Developed and optimized API endpoints to retrieve new data types and expand data access across the platform.
- Refactored data rendering and fetching, reducing profile load time by 15%.
- 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

Remote

- 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- Revamped outdated curricula on Python and Java for improved clarity and engagement.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

WormScans

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

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

- Automated a Python scraping pipeline to streamline uploads, cutting manual upload time by 70% per chapter.
- 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

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

Fractal Tree Visualizer | React, Next.js, TypeScript

- 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.

Dungeons and Dragons Statistic Setter

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

Tool for setting DnD stats | React, Next.js, Supabase, TypeScript

- 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

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

Frameworks: React, Node, Next.js.

Tools: Git, Supabase, Playwright, Vercel