

Steven Zhang

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EDUCATION

B.A.Sc. in Computer Engineering, PEY Co-op

University of Toronto

Sep. 2024 – Apr. 2029 (Expected)

Toronto, ON

- **Intended Minors:** AI Engineering, Engineering Business
- **Cumulative Grade:** 87%, Dean's Honours List
- **Relevant Courses:** Computer Fundamentals (C), Programming Fundamentals (C++), Digital Systems (Verilog), Linear Algebra (MATLAB)

SKILLS

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

Tools: Git, GitHub, Prisma ORM, React Hooks, React Query, react-hook-form, shadcn/ui, NumPy, Pandas

Technologies: Next.js, React, Vite, Tailwind CSS, Node.js, Express, Supabase, PostgreSQL, SQLite, JWT, bcrypt, Google Maps API, Gemini API

EXPERIENCE

Developer (Web Frontend)

Engineers Without Borders (UofT Chapter)

July 2025 – Present

Toronto, ON

- Converted an ESP course prototype into a full-stack site with Next.js, TypeScript, Tailwind, and Supabase to handle recipes, resources, news, and user submissions.
- Currently building an interactive campus food map using Google Maps API with filters for cuisine, dietary needs, price, and distance to UofT buildings.
- Developing an automated email subscription feature with Next.js API routes and Supabase to notify students of new food resources.

Software Engineering Intern

Skynet Security System Ltd.

May 2025 – Aug. 2025

Vancouver, BC

- Built a React + TypeScript admin dashboard that displayed upcoming technician jobs from a PostgreSQL database for 30+ employees.
- Created a secure authentication system with JWT and bcrypt, allowing staff and technicians to log in with protected access.
- Built an automated billing system with Node.js, Express, and Prisma ORM to generate recurring invoices for clients.

ML Instructor

UBC Geering Up

July 2023 – Aug. 2023

Vancouver, BC

- Covered Python, NumPy, Pandas, Git, and GitHub, with lessons on dataset preparation and model building.
- Guided 30+ students through a hands-on project using Pokémon image datasets to teach introductory machine learning concepts.

PROJECTS

Web Music Streamer | [TypeScript](#), [Next.js](#), [Supabase](#) | [GitHub](#)

- Full-stack audio streaming platform in Next.js, Tailwind CSS, and Supabase with drag-and-drop MP3 uploads and cloud storage.
- Playback system built using the HTML5 `<audio>` API and React state, supporting play, pause, skip, and progress tracking.
- Designed a Supabase backend (PostgreSQL + Storage) to manage song data and song library information.

Syllabus Tracker AI | [Next.js](#), [TypeScript](#), [Tailwind](#), [SQLite](#), [Gemini API](#) | [GitHub](#)

- Course dashboard in Next.js and Tailwind that summarizes course syllabi, with interactive view for grade breakdown, assessments, and policies.
- Gemini API leveraged to parse syllabus PDFs into structured JSON, extracting key details and reducing manual review.
- Backend powered by SQLite to contain syllabus data, enabling fast lookups.

Engineering Strategies Design Course | *Team Lead*

- Led a 4-month engineering design process for a food information website.
- Supervised the planning and allocation of team resources to ensure long-term major project deadlines were met.
- Prioritized Functions, Objectives, and Constraints (FOCs), along with stakeholder needs to generate 3 feasible Industry-ready designs.