

Victor Thai

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EDUCATION

University of British Columbia

Bachelor of Science in Computer Science (Co-Op)

May 2027

Vancouver, B.C

PROJECTS

Lullalink – HTC [Winner] | React/TS (Vite), Node/Express, MongoDB Atlas, Firebase Auth

Feb 2026

- Developed **Lullalink**, a full-stack AI baby monitor that reduces caregiver burden through real-time motion alerts, risk assessment, and voice-personalized lullabies; won **Best Use of Vultr** and **Best UI/UX Design**.
- Engineered a React + TypeScript frontend with a Claymorphism component system and Framer Motion animations, and a Node.js/Express backend with **27 REST endpoints** deployed on **Vultr**; secured protected routes via Firebase Auth and JWT, and persisted data with **MongoDB Atlas**.
- Integrated TensorFlow.js MoveNet with **Gemini** for real-time motion classification; cut third-party AI load by **95%** through throttling and reduced duplicate alerts by **20×** via deduplication; shipped **18 lullaby configurations** via **ElevenLabs** TTS and voice cloning.

PlayItForward – nwHacks [Winner] | React/JS (Vite), Gemini API, Snowflake, Firebase Auth

Jan 2026

- Launched **PlayItForward**, a full-stack platform that reduces toy waste by connecting families to donate, browse, and request pre-loved toys; won **Best .TECH Domain** among 169 projects and 600+ participants.
- Owned frontend architecture for a 4-person team, shipping 11 fully responsive pages and contributing 50% of the codebase to deliver a complete MVP in under 24 hours.
- Connected **Firebase Auth** to **Snowflake**-backed REST APIs for secure data persistence; enforced XSS input sanitization and real-time form validation to maintain data integrity across all user flows.

CarbonCompass – StormHacks | TypeScript, Vite, React, Tailwind, Google Cloud APIs

Oct 2025

- Shipped **Carbon Compass**, a route planning app that helps eco-conscious commuters compare real-time CO₂ emissions across walking, cycling, transit, and driving to make sustainable travel decisions; deployed on **Vercel**.
- Structured a modular React frontend with custom hooks for route fetching, autocomplete debouncing, real-time trip tracking, and weather integration, reducing code duplication by **67–87%** through component refactoring.
- Interfaced a Node.js/Express backend with the **Google Maps Directions API** for route data, layered with emission factor calculations and input validation middleware to serve accurate carbon estimates per trip.

EXTRACURRICULAR

UBC Game Development Club

Sept 2025 – Present

Website Director | React/TS, Astro, Tailwind, framer-motion

Vancouver, B.C

- Directed the official UBC Game Dev website for **200+ members**; led a full **v2.0.0** Cyberpunk UI overhaul across **7 pages** — shipping a new merch experience, **6 new Home sections**, and richer Events and About interactions via **Vercel** CI/CD.
- Reduced page weight by **95%** using Astro's Image Service and asset compression, improving Core Web Vitals; fixed loading-screen race conditions and mobile scroll bugs to stabilize cross-device behaviour.
- Refactored shared component patterns and service/data structures across games, events, and exec rosters to unify layouts; built the merch page with category filters, multi-image support, product modals, and drop notification UI.

Girls Powered Up

July 2024

Technical Volunteer

Western Mechatronics

- Spearheaded a team to **2nd place in the Girls Powered Up Championship** (sponsored by Google and UCalgary), utilizing C++ to architect optimized robotic control systems and competition strategies.
- Mentored **150+ students** in robotics and software fundamentals, fostering an inclusive STEM environment by providing technical guidance on robotic handling, control, and sportsmanship.

TECHNICAL SKILLS

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

Libraries: React, Tailwind, scikit-learn, pandas, NumPy, tidyverse, tidymodels, Axios, framer-motion

Frameworks/Runtime: Astro, Node.js, Express.js, Vite

Developer Tools: Git/GitHub, Antigravity, VS Code, Google Cloud Platform/Console, Jupyter Notebook

