

Hector Ha

Toronto, ON | +1 437-878-2001 | duonghv19909@gmail.com | hectorha.dev |
linkedin.com/in/hector-ha | github.com/Hector-Ha

WORK EXPERIENCE

Full-Stack Web Developer

Aug 2025 - Oct 2025

Freelancer

Remote

- Engineered a comprehensive EdTech platform for a Senior Cloud Consultant (BC), utilizing WordPress to manage course sales, user authentication, and Stripe payments, integrated with a custom Next.js student dashboard.
- Served as the primary client contact in a 2-person team, delivering complex features including unified cross-platform authentication and real-time enrollment synchronization across 10 weekly sprints with 100% adherence to the 3-month project roadmap.
- Optimized the platform's user journey & page performance to support the client's specialized curriculum of AWS, Azure, & Cisco courses, achieving bounce rate of approximately 32% and significantly improving student retention.

UI/UX Designer

Jul 2022 - Jun 2024

Lollypop Design Studio

HCMC, Vietnam

- Conducted over five UX research sessions, which encompassed conducting interviews, data analysis, and preparing easy-to-read and understand insightful reports.
- Designed and conducted A/B tests over 20 high-fidelity UI prototypes from wireframes and sitemaps, ensuring alignment with business objectives while increasing stakeholder approval rates by 40%.
- Collaborated with product owners and cross-functional teams to optimize information architecture, resulting in a 30% reduction in user navigation time and enhancing overall site usability across desktop and mobile platforms.

PROJECTS

Interlock | [GitHub](#)

Jan 2026 – Present

Tech Stack: Next.js 16, Express 5, Bun, PostgreSQL, Plaid, Dwolla

- Architected a production-ready fintech monorepo using the **Bun** runtime, combining a **Next.js 16** frontend with an **Express 5** backend to achieve ultra-fast execution and type-safe API communication.
- Engineered a secure banking infrastructure integrating **Plaid** for OAuth-like account aggregation and **Dwolla** for processing ACH money transfers, utilizing **webhooks** to sync transaction states (pending, processed, failed) in real-time.
- Implemented enterprise-grade security including **AES-256-GCM** encryption for PII at rest, **JWT** authentication with refresh token rotation, and **HMAC-SHA256** signature verification for zero-trust event handling.

AltShift | [GitHub](#)

Oct 2025 – Dec 2025

Tech Stack: React 19, TypeScript, Express 5, MongoDB, Socket.IO, GraphQL

- Built a scalable backend API using **Express 5** and **MongoDB** (Mongoose) to handle complex document structures, deploying the application on the **Bun** runtime for optimized performance.
- Developed a real-time collaborative document editor using **React 19** and **Socket.IO**, enabling low-latency, multi-user concurrent editing with conflict resolution similar to Google Docs.
- Integrated **Slate.js** to build a custom rich-text editor engine and implemented AI-assisted content generation features powered by **Groq (Llama 3)** for text summarization and auto-completion.

TECHNICAL SKILLS

Languages: JavaScript/TypeScript, Java/Kotlin, HTML/CSS, PostgreSQL, SQL

Frontend: React, Next.js, Tailwind CSS, Shadcn/UI, GSAP, Anime.js

Backend: Node.js, Express, GraphQL, Prisma, Zod, Socket.IO, REST APIs, Stripe

Databases: PostgreSQL, MongoDB, Redis

DevOps & Tools: Docker, AWS, Sentry, GitHub Actions, Git, Vercel

EDUCATION

Conestoga College

Aug 2024 – Dec 2025

Graduate Certificate in Web Development - Distinction Certificate

Kitchener, ON

University of Information and Technology - VNU

Aug 2019 – Aug 2023

BS, Computer Science - GPA: 3.94/4.0

HCMC, Vietnam