

Kevin Li

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EDUCATION

University of Waterloo

Bachelor of Computer Science, Honours, Co-op, **3.98 GPA**

Waterloo, ON

Sep. 2025 – Present

TECHNICAL SKILLS

Languages: Python, TypeScript, Java, JavaScript, C, C#, Relational Databases (SQLite, PostgreSQL)

Frameworks: React, Node.js, Next.js, Uvicorn, FastAPI, Tailwind CSS

Developer Tools: Git, Vite, VS Code, Vercel, Cursor, Docker

Libraries: NumPy, Flask, pandas, PyTorch, TensorFlow

EXPERIENCE

Full-Stack Developer Intern | *Typescript, Node.js, React, Firebase, Git*

September 2025 – March 2026

Pin Design Build

Markham, ON

- Developed a **full-stack, cross-platform PWA** using React for project management, serving **30+ employees** and **97% uptime**
- Engineered an **automated payroll and budget calculation/planning engine** using TypeScript and Firebase that **cut daily administrative overhead by 2 hours per employee**

Coding Instructor | *JavaScript, C#, Git*

February 2023 – July 2025

Code Ninjas Markham

Markham, ON

- Mentored **300+ students** in JavaScript and C# through real-time code reviews and debugging sessions on game development projects, building their confidence in solving technical problems
- Analyzed student performance data to design personalized learning plans and lesson roadmaps, achieving an **80% curriculum advancement rate** and improved retention of coding concepts

PROJECTS

Multimodal AI Teaching Assistant | *React, Next.js, FastAPI, Python, ElevenLabs, Gemini API*

- Built a **real-time agentic AI tutoring system** that analyzes student mistakes in real-time using Gemini API on a TLDraw whiteboard, with ElevenLabs Conversational AI delivering live tutoring with **under 75ms latency**
- Integrated **MediaPipe Face Mesh** in the browser to track real-time student engagement, analyzing **468 facial landmarks** to detect disengagement with **90% accuracy**
- Coordinated **three external APIs (ElevenLabs Scribe, Gemini, TLDraw)** in a stateless session architecture with WebSocket reconnection logic and in-memory state, **maintaining a consistent sync across all three services with minimal delay**

Educational Coding Game | *TypeScript, JavaScript, React, Firebase, Phaser*

- Architected a **2D RPG in Phaser.js** with a React overlay, implementing a **Redux-based state management system** to synchronize game variables including player stats, inventory, and quest progress
- Built a **procedural quest generation engine** of dynamically changing coding puzzles across various CS concepts via a weighted difficulty graph that adjusts to student performance history

Music Recommendation App | *React Native, Next.js, Typescript*

- Engineered a **music recommendation algorithm** using **4 similarity measures** (Cosine, Euclidean, Manhattan, Jaccard) across data from **8+ music APIs** for the most accurate song recommendations
- Developed a full-stack cross-platform app with **JWT-authentication**, SQLite database, and a **Tinder-style swipe interface** with audio previews and real-time updates to the generative algorithm

AWARDS

DECA Provincial Champion & ICDC Qualifier: Top 10 Overall in Principles of Finance (PFN); **selected to represent Ontario at the International Career Development Conference (ICDC)**

CCC Distinction: Ranked in **top 25%** of competitors in Senior Division (University of Waterloo)

CSMC Distinction: Scored in **top 25%** of participants globally (University of Waterloo)