

Kevin Li

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EDUCATION

University of Waterloo

Bachelor of Computer Science, Honours, Co-op, **3.9 GPA**

Waterloo, ON

Sep. 2025 – Present

SKILLS & AWARDS

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

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

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

Libraries: NumPy, Flask, pandas, PyTorch, TensorFlow

Awards: cuHacking 7 Winner; DECA Provincial Champion, ICDC Qualifier; CCC, Fermat, CSMC Distinction

EXPERIENCE

Engineering Intern - AI/QA Automation | *Python, SQL, Postman, Playwright*

May 2026 – Present

Corpay

Toronto, ON

- Architected a **multi-skill QA agent** whose **orchestrator** routes natural-language requests across **40+ specialized skills**, grounding each in reference context and escalating low-confidence cases to **human review**
- Automated **200+ end-to-end and API tests** into a **regression suite** run each sprint, raising regression coverage of core payment flows by **over 30%**
- Programmed **SQL** scripts to seed and validate test data across pre-release environments, and maintained **Postman collections** covering the application's API endpoints to keep regression runs reproducible between releases

Software Engineer | *Go, Python, Kubernetes, Cloudflare API*

Jan. 2026 – Present

WATonomous (WATCloud Infrastructure)

Waterloo, ON

- Designed an **automatic DNS failover** service that health-checks nginx-ingress hosts in a **Kubernetes** cluster and removes downed hosts from DNS via the **Cloudflare API**, keeping traffic off unreachable nodes
- Launched a **unified CLI** for **300+ cluster users** reporting node health, quota usage, and rootless Docker daemon status in a **single userspace command**

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

Sep. 2025 – Mar. 2026

Pin Design Build

Markham, ON

- Developed a **full-stack project management application** for **30+ employees**, consolidating **10+ manual workflows** (scheduling, task and expense tracking, budgeting) into a single React and Firebase system
- Modeled the **Firestore data layer** capturing daily work logs, hours, and task completion, deriving payroll and project progress from a single write and **cutting 2 hours of daily admin per employee**

PROJECTS

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

- Built a **real-time agentic AI tutoring system** that analyzes student work on a TLDraw whiteboard via Gemini API, with ElevenLabs Conversational AI tutoring at **under 75ms latency**
- Developed an **engagement scoring algorithm** over **468 MediaPipe facial landmarks**, combining gaze, head pose, and blink rate into a continuous attention metric that flags disengagement with **90% accuracy**
- Structured **parallel sub-agents** handling whiteboard analysis, voice tutoring, and engagement tracking concurrently, sharing session state over WebSockets to eliminate sequential processing bottlenecks

Blockchain Photo Authenticator | *React Native, Expo, TypeScript, Node.js, Rust, Solana, MongoDB*

- Devised a **camera-to-chain photo authenticity system** that cryptographically signs photos at capture with an on-device **Ed25519** key and anchors them to the **Solana** blockchain for tamper-proof verification
- Authored an **Anchor (Rust) program** that re-verifies signatures on-chain and mints content-addressed records via **PDA**s seeded by each photo's SHA-256 hash, rejecting duplicates by construction
- Implemented a **64-bit DCT perceptual hash** with **MongoDB Atlas Vector Search** to trace recompressed or resized reposts back to verified originals, returning **verified, derived, or unmatched**