

Kevin Lan

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SKILLS

- **Languages:** Typescript, Python, Java, C, SQL, HTML, CSS, Javascript, Bash
- **Frameworks:** React, NextJS, NodeJS, Express, Spring Boot, TailwindCSS, Jest, Puppeteer, LangChain
- **Tools:** AWS, Cloudflare, Terraform, Git, Docker, Postman, PostgreSQL, MongoDB, Vercel, Posthog, GraphQL, REST

EXPERIENCE

Software Engineer Intern - *Borderpass*

May 2025 - Aug 2026

- Delivered an end-to-end AI Job Search Tool which generated filters based on vector indexed user resumes to perform a web crawl of popular job sites, returning a personalized list of job postings in seconds.
- Engineered and maintained several AWS Lambda functions powering core application workflows including PDF/ZIP merging, image preprocessing, web scraping, and legal document generation significantly boosting system reliability and workflow efficiency.
- Developed headless Puppeteer automations for performing browser-based tasks such as form submissions, resulting in hundreds of hours saved for the operations team weekly.
- Leveraged & tested AI vision models such as Google Gemini to read and extract information from user documents, constructing a comprehensive overview of applicant information.

Full Stack Developer Intern - *FPT Software*

Aug 2024 - Dec 2024

- Introduced a secure Node.js reverse proxy with encryption, JWT management, and session caching, which strengthened security by preventing client applications from directly interacting with the core API server
- Automated a key client workflow by developing a PDF parsing/autofilling tool using Apache PDFBox capable of extracting data from raw and XFA-based PDFs. Integrated with an email webhook, handling 1000's of forms daily
- Built a scalable Java Spring Boot email notification service that processed thousands of inbound and outbound emails daily, enabling reliable automated communication triggered by real-time application events.

UI/UX Design Intern - *Ministry of Transportation Ontario*

Jan 2024 - Apr 2024

- Accelerated product delivery by translating complex policy and technical requirements into high-fidelity Figma wireframes, supporting two agile engineering teams and improving sprint output and feature clarity.

EDUCATION

University of Toronto Scarborough - *Toronto, ON*

2022 - Present

- BSc. Computer Science, Entrepreneurship Specialist, 4th year

Current GPA: 3.85

PROJECTS / CONTRIBUTIONS

Apache Superset - *Open Source Contribution*

[Source code](#) Nov 2025

- Contributed a core dependency upgrade to resolve deprecated ORM runtime validation logic in Flask

Course Matrix - *AI Integrated Timetable Builder*

[Source code](#) Apr 2025

- Built a retrieval-augmented agentic chatbot using OpenAI API, LangChain, and Pinecone vector search to answer UTSC course and timetable queries with context-aware responses.
- Developed a dual-mode chat flow with one branch for retrieval-augmented Q&A and another for agent-style tool invocation (CRUD operations on timetables) allowing for in-app actions to be taken with natural language
- Implemented an end-to-end ChatGPT-like UX with React complete with persistent conversation storage, multiple conversation threads, markdown rendering, and text streaming creating an intuitive conversational workflow.

Knockouts - *Realtime Multiplayer Game*

[Source code](#) Mar 2026

- Built & Deployed a low-latency online party game with dynamic room scaling using NextJS, Vercel, Cloudflare edge workers + Durable Objects, and Websockets