Ethan Lai

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Skills

Languages: Python, HTML/CSS, JavaScript, Typescript, SQL
Developer Tools: Git, GitHub, VS Code, Visual Studio, PyCharm, IntelliJ
Technologies/Frameworks: React, Next.js, Flask, PostgreSQL, SQLite, Postman, Docker, Redis, MaterialUI, ShadcnUI

Experience

OMERS   Sep 2025 – Dec 2025
Incoming Full Stack Developer   *Toronto, ON*
- Software engineering intern focusing on full stack development

OneChart   May 2024 – May 2025
Full Stack Developer   *Hamilton, ON*
- Engineered an automated React form builder using **JSON-driven component rendering** to streamline client onboarding, supporting **1,500+ users** and reducing development time by **100+ hours**.
- Collaborated with design team and product manager to build reusable React component library for form builder, reducing new form type development time by **20+ hours** and supporting **10+ customizable UI elements**.
- Deployed and maintained Docker instances of OneChart on MedStack cluster, serving **10 healthcare organizations** with secure cloud infrastructure.
- Implemented Stripe API to automate subscription billing, handling **1,500+ checkout transactions**.
- Developed Celery (Python) workers using Redis to manage AI dictation workflows, eliminating API bottlenecks and improving system response time by **20%**.

Champions Martial Arts   Apr 2018 – Mar 2021
Martial Arts Instructor   *Mississauga, ON*
- Broke down complex martial arts techniques into manageable steps, reducing average skill mastery time by **50%**.
- Adapted teaching methods to accommodate students with diverse learning styles, achieving **80%** student retention.

Projects

Notare | *TypeScript, JavaScript, React, Next.js, Google Gemini AI, PostgreSQL, REST APIs*   Jan 2025 – Apr 2025
- Led full-stack development and project management of AI-powered note-taking application, conducting code reviews and pair programming while coordinating Agile meetings and product backlog.
- Built an AI response system that analyzes current note content to provide contextually relevant suggestions, ensuring AI responses match the document's content and writing style.
- Designed a user-friendly note navigation system with a collapsible sidebar, multi-tab interface, and folder management, advancing React component architecture skills for optimal document organization.
- Leveraged Google Gemini AI for interactive Q&A functionality, enabling users to quickly review key points and generate document summaries.

Delius | *Python, JavaScript, React, Flask, PostgreSQL, REST APIs*   July 2024 – Sep 2024
- Identified complexity barriers in existing workspace tools and created a workspace application with template selection feature allowing users to choose from multiple workspace types and reduce setup time.
- Architected dashboard with weather widget, interactive calendar, and task management system, creating a centralized productivity hub for daily workflow organization.
- Integrated OpenWeather API for real-time data fetching and built calendar functionality with event management, color-coding, and filtering capabilities.

Education

University of Toronto Mississauga   Sep 2021 – Apr 2026 (Expected)
Bachelor of Science in Economics   *Mississauga, ON*
- Minors: Computer Science, Math
- Coursework: Software Engineering, Data Structures and Algorithms, Software Design, Systems Programming