# Ethan Lai

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## Education

**University of Toronto Mississauga**                                   **Sep. 2021 – April 2026**
*Candidate for Bachelor of Science*                                     *Mississauga, Ontario*
- Economics Major, Computer Science and Math Minor

## Skills

Driven computer science student with practical experience in full-stack web development, including frontend technologies like React and backend systems. Combines technical expertise with strong communication skills. Seeking a software developer role to create innovative web applications in a collaborative, cutting-edge environment.

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

## Experience

**OneChart**                                                           **May 2024 – May 2025**
*Software Developer*                                                    *Hamilton, Ontario*
- Developed an automated React form builder to streamline client onboarding, supporting **1,500+ users** and reducing development time by **100+ hours**.
- Built 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**                                             **April 2018 – March 2021**
*Martial Arts Instructor*                                              *Mississauga, Ontario*
- 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 and physical abilities, achieving **80%** student retention.

## Projects

**Delius** | *Python, JavaScript, React, Flask, PostgreSQL*            **July 2024 – September 2024**
- Developed a workspace web application using, offering pre-designed layouts and intuitive templates to simplify workspace organization and reduce user overwhelm
- Engineered a dynamic home page interface showcasing tab-based navigation, page creation system allowing users to select from various templates and an interactive calendar with event creation, color-coding and filtering capabilities
- Created a weather component displaying current and 5-day forecast data (temperature ranges and conditions), **leveraging OpenWeather API** to fetch and display real-time weather data

**Notare** | *TypeScript, JavaScript, React, Next.js, Google Gemini AI, PostgreSQL*   **January 2025 – April 2025**
- Developed an AI-powered note-taking application to enhance workflow efficiency through intelligent note organization, real-time editing, and automated content insertion
- Implemented a contextual insertion system that analyzes surrounding content to position AI-generated responses optimally, maintaining document structure and boosting productivity.
- Designed a user-friendly note navigation system with a collapsible sidebar, multi-tab interface, and smart tag management to optimize document organization and quick access.
- Integrated Google Gemini AI for intelligent summarization and interactive Q&A, improving note management and providing users with actionable, real-time insights.