

Jeffrey Ye

Toronto ON | jeffrey.ye@torontomu.ca | 647 917-7326 | jeffreyye.ca | LinkedIn: jeffreyye1 | GitHub: JeffreyYeet1

Summary of Qualifications

- Proficient in **Python**, **Typescript**, **React (TypeScript)**, **HTML/CSS**, **Java**, **JavaScript**, and **Docker**
- **Full-stack development** experience with **React**, **Next.js**, **Node.js**, **Express**, and **Python**, building dynamic and interactive web applications. Coupled with **PostgreSQL+MongoDB**, and **Supabase+FastAPI**, designing and managing structured and unstructured data for real-time applications
- Experience with **user authentication** and **session management**, implementing **OAuth 2.0** (Google Cloud) and **JWT**-based authentication for secure access control and a smooth **UX** experience
- **API development** using **RESTful** endpoints in **Express** and **FastAPI**, integrating third-party services such as OpenAI, Azure TTS, Google Calendar, and webkitSpeechRecognition
- Experience deploying full-stack applications to production using Netlify, Render, custom domains (Porkbun), and containerized environments with **Docker**

Experience

Demam Esports May 2025
Software Engineer Markham, ON

- Joining a core team of **4** devs to pioneer a new esports tournament client for a community of **75,000+**

Projects

Clash of Plans (GenAI Genesis) March 2025

- Developed a productivity app using **Next.js** and a **FastAPI framework** with **Python**, utilizing **Supabase** to authenticate users with **OAuth2.0**
- Utilized **CohereAI** and **LangChain** to create an AI Agent, "*Peka*," with **Natural Language Processing** capabilities with intended use as a chatbot to boost user productivity with assistance and suggestions
- Integrated Google Calendar API to sync user events, leveraging **OAuth2.0** for calendar accessible **authToken** generation

Wordle+ Feb 2025

- Developed a full-stack web application using **React** for the front-end and **Node.js** with **Express** for the back-end, utilizing **MongoDB** to store player statistics from various Wordle-style games
- Implemented stat tracking with **Express**, handling **API** routing and middleware to display a leaderboard for user performance
- Used **Docker** containers to set up a consistent development environment for the full-stack application, simplifying **dependency management** and **deployment** on **Render**

MockMate (UofTHacks) Jan 2025

- Created a full-stack web application web using **Next.js** and **PostgreSQL** to assist users with interview prep, providing real-time feedback on any topic
- Integrated OpenAI, Azure TTS, and webkitSpeechRecognition **APIs** to simulate key aspects of a real interview environment
- Collaborated in a team setting at **UofTHacks**, maintaining effective communication and task management to streamline workflow and prioritize key features

Personal Website Sept 2024

- Designed and developed a static website using **Next.js** and **CSS** to showcase projects, skills, experience, and personality
- **Deployed** a fully functional web application to production with a custom domain using Porkbun and Vercel
- Crafted a visually appealing and responsive **user interface**, ensuring a seamless experience across all devices

Education

Toronto Metropolitan University, BS in Computer Science (Co-op) Sept 2023 - Present

- **Data Structures** (CPS305)
- **Operating Systems** (CPS590)
- Intro to **Software Engineering** (CPS406)
- *TMU Computer Science Course Union*
- *TMU Chinese Student Association*