

Jeffrey Ye

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Summary of Qualifications

- Proficient in **Python**, **Typescript**, **React**, **HTML/CSS**, **Java**, **JavaScript**, and **Docker**
- **Full-stack development** experience with **React (TypeScript)**, **Next.js**, **Node.js**, and **Express**, building dynamic and interactive web applications. Paired with **PostgreSQL** and **MongoDB**, designing and managing structured and unstructured data for real-time applications
- **API development** using **RESTful** endpoints in **Express**, integrating third-party services such as OpenAI, Azure TTS, and webkitSpeechRecognition
- Experience deploying full-stack applications to production using Netlify, Render, custom domains (Porkbun), and containerized environments with **Docker**

Projects

Wordle+ Feb 2025

- Developed a full-stack web application using **React.js** (TypeScript) 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

Leadership Experience

Toronto Metropolitan University Computer Science Course Union

Dep VP Operations Apr 2024 - Present

- Responded to and resolved issues, concerns, and inquiries from **50+** students
- Maintained background operations such with Notion, Google Calendar, and Discord servers to ensure a smooth connection of information between union members
- Assisted in the creation of **5+ TMU CSCU** events through reaching out to sponsors and organizing catering services

Toronto Metropolitan University Chinese Student Association

Events Associate Apr 2024 - Present

- Created social events in partnership with **BarDemTO** such as our **Twilight Terror** and **Serpents Soiree** events
- Actively welcomed guests at events and created positive connections between association members and guests.
- Promoted club events to the student body resulting in **90%+** capacity sold in each event

Education

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

- Data Structures (CPS305)