

Kaiwen Yao

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EDUCATION

Queen's University

September 2022 – May 2026

Bachelor of Computing (Honours), Major in Artificial Intelligence, Minor in Mathematics

Kingston, ON

- **Cumulative GPA:** 3.99/4.0
- **Awards:** Queen's Principals Scholarship (2022), R. Kenneth and Catherine Matheson Carty Award (2022), Gordon Canning Award in Mathematics (2023)

TECHNICAL SKILLS

Languages: Java, Python, C, Golang, HTML5, CSS, JavaScript, PHP, MATLAB, SQL, Prolog

Frameworks: ReactJS, NextJS, ExpressJS, Vite, JQuery, Django, Flask, JUnit

Libraries/API: Fetch, TailwindCSS, pandas, numpy, smtplib, openAI, tensorflow, matplotlib, transformers, keras_ocr

Developer Tools: Git, Bash, Visual Studio, Command Line Interface/Shell, Linux, Postman, AWS, Firebase, Vercel

EXPERIENCE

CanFocus Inc.

April 2024 – Present

Fullstack Software Engineer

Markham, ON

- Engineered a robust full-stack platform for an online ADHD clinic using Next.js, Node.js, Go, and MySQL, supporting over **800+** users. Enhanced user experience and operational efficiency.
- Developed new web application sections and pages, resulting in a **60% increase** in user engagement and a **150% rise** in client registrations, significantly boosting customer satisfaction and retention.
- Optimized backend processes and implemented an interactive UI, reducing user registration processes from 8 minutes to **2 minutes**.

QMIND - Consulting Team

October 2023 – May 2024

AI Software Engineer

Kingston, ON

- Designed a contract assistant chatbot using Python and Command Line Interface, achieving efficient data extrapolation on diverse datasets, processing 1GB of files in **45 seconds**.
- Led the integration of GPT models, TensorFlow, and Keras OCR in a streamlined pipeline, generating structured responses from any page of any file in 28 seconds.
- Innovated with self-improving LLM prompts, enhancing response specificity and relevance, resulting in a 300% increase in response accuracy based on user queries.

Undergraduate Teaching Assistant

May 2024 – Present

Queen's University School of Computing

Kingston, ON

- Evaluated assignments and lab reports for 300+ students, delivering constructive and detailed feedback to enhance student learning outcomes.
- Monitored online discussion boards to observe students' comprehension, offering assistance as needed
- Collaborated with professors, students, and the education team in meetings to ensure seamless course progression and effective communication.

PROJECTS

Course Planner courseplanner.ca | *Figma, ReactJS, NodeJS, ExpressJS, Vercel, MySQL, AWS*

- Pioneered a strategic web application that improves course scheduling efficiency, automating conflict detection and schedule visualization to cut down manual planning time from several hours to **under 3 minutes**.
- Facilitated over 50 user registrations in the first 12 hours post-launch, capturing **5%** of the target student body (under 1,000 students) with continued user growth.
- Constructed a reliable middleware using ExpressJS and NodeJS, managing **800+** daily transactions seamlessly with MySQL on AWS RDS ensuring data integrity and quick access.

Kingston Marketplace (Hackathon Project) | *Figma, HTML, TailwindCSS, JavaScript, ReactJS, Firebase*

- Designed front-end development using React and Tailwind to deliver a responsive user interface on selling first or second-hand items within the City of Kingston.
- Integrated a Firebase back-end, incorporating authentication and real-time profile and product listing management.
- Developed dynamic listing interfaces, contributing to an application that increases local business visibility and community engagement in Kingston.