Kaiwen Yao

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EDUCATION

Queen's University
September 2022 – April 2026
Bachelor of Computing (Honours), Major in Artificial Intelligence, Minor in Mathematics
Kingston, ON
- **Cumulative GPA**: 3.99/4.0, Dean's Honour List, Dean's Honour List with Distinction
- **Awards**: Queen's Principals Scholarship (2022), R. Kenneth and Catherine Matheson Carty Award (2022), Gordon Canning Award in Mathematics (2023), Investors Group Award (2024), Dean's Award of Excellence (2024)

TECHNICAL SKILLS

Languages: Java, Python, C, C++, Golang, HTML5, CSS, JavaScript, PHP, MATLAB, SQL, Prolog, Haskell, R
Technologies: ReactJS, NextJS, ExpressJS, JQuery, Django, Flask, TailwindCSS, Pandas, NumPy, OpenAI, TensorFlow, PyTorch, Git, Bash, Visual Studio, Command Line Interface/Shell, Linux, AWS, Firebase, Vercel
Concepts: Data Structures, Algorithms, Machine Learning, Data Science, Linear/Nonlinear Data Analysis, Software Engineering, Web Frameworks, Databases, Full Stack, Frontend, Backend, Game Development, REST API, Networking, Operating Systems, Statistics, Calculus, Probability

EXPERIENCE

Royal Bank of Canada
May 2025 – August 2025
Software Developer Intern (Amplify Program)
Toronto, ON
- Incoming Summer 2024

CanFocus Inc.
April 2024 – August 2024
Fullstack Software Engineer Intern
Markham, ON
- Engineered a full-stack online ADHD clinic, supporting **800+** users, by utilizing Next.js, Node.js, Go, and MySQL.
- Designed new web application sections targeting ADHD patients, increasing client registrations by **150% rise**.
- Optimized backend processes through API practices, reducing user registration processes from 8 to **2 minutes**.

QMIND & RedBit
October 2023 – April 2024
Software Engineer
Kingston, ON
- Developed a construction contract assistant chatbot in Python, capable of processing 10+ GB of documents (PDFs, drawings, spreadsheets, images) and providing relevant answers in less than 30 seconds.
- Integrated PyMuPDF, Pandas, GPT, TensorFlow, and KerasOCR pipeline to extract and find relevant information.
- Innovated with self-improving LLM prompts to enhance response specificity, increasing response accuracy and depth

QMIND & Blue J Legal
September 2024 – Present
Software Engineer
Kingston, ON
- Crafted a tax diagram editor application using React to showcase relationships based on imported images.
- Automated Diagram to JSON conversions through OpenAI, Anthropic API, and prompt engineering.
- Formulated auto-evaluation to fine-tune automation through assessing text similarity, orientation, and spacing.

Queen's University
May 2024 – Present
Undergraduate Teaching Assistant
Kingston, ON
- Evaluated assignments, quizzes, labs for 300+ students, provided constructive feedback to enhance student learning.
- Led on-site tutorial sections to prepare students for assessments and revise challenging concepts.
- Collaborated with professors and other TAs to ensure seamless course progression and consistent grading standards.

PROJECTS

Course Planner courseplanner.ca | *Figma, ReactJS, NodeJS, ExpressJS, Vercel, MySQL, AWS*
- Pioneered a web application that streamlines course planning from hours to minutes, by implementing automatic conflict detection and schedule visualization with a friendly User Interface.
- Facilitated **600+** user registrations, capturing 5% of the target student body within the first 12 hours.
- Constructed middleware and backend using NodeJS and AWS RDS, managing **1000+** daily transactions seamlessly

Kingston Marketplace (Hackathon Project) | *Figma, HTML, TailwindCSS, JavaScript, ReactJS, Firebase*
- Designed and developed a responsive web application for selling second-hand items within the City of Kingston.
- Integrated a Firebase back-end, incorporating authentication and real-time profile and product listing management.