

# Kevin (Kaiwen) Yao

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## EDUCATION

<b>Queen's University</b> <i>Bachelor of Computing (Honours), Major in Artificial Intelligence, Minor in Statistics</i>	September 2022 – May 2026 Kingston, ON
<ul style="list-style-type: none"><li>• <b>Cumulative GPA:</b> 4.28/4.3, Dean's Honour List with Distinction</li><li>• <b>Awards:</b> Queen's Principals Scholarship (2022), Gordon Canning Award in Mathematics (2023), Investors Group Award (2024), Dean's Award of Excellence (2024), Queen's Appeal Undergraduate Scholarship (2025)</li></ul>	

## EXPERIENCE

<b>RBC Borealis (Borealis AI)</b> <i>Software Engineer Intern (GenAI Systems)</i>	September 2025 – December 2025 Toronto, ON
<ul style="list-style-type: none"><li>• Built an automated system in <b>Streamlit Python</b> to detect when AI conversations should end in an employee training application, removing the need for any manual intervention and improving reliability.</li><li>• Standardized AI model outputs to simplify application logic, cutting error handling and defensive parsing by <b>50%</b>.</li><li>• Reduced AI inference costs by <b>50%</b> by optimizing prompts and enabling cached responses in <b>OpenAI API</b> requests.</li><li>• Refactored core features into reusable modules and aligned <b>Pydantic</b> and <b>MongoDB</b> schemas to remove legacy fields and introduce scalable, well-defined data models.</li></ul>	
<b>Royal Bank of Canada</b> <i>Software Developer Intern (Amplify Program)</i>	May 2025 – August 2025 Toronto, ON
<ul style="list-style-type: none"><li>• Designed and built a KYC dashboard using <b>Angular</b> and <b>Python</b> backend to replace legacy systems, reducing onboarding time from <b>60 to 5</b> mins by streamlining verification workflows and automating with Agentic AI.</li><li>• Engineered an AI document processing pipeline using <b>Azure services</b>, <b>OpenAI</b>, <b>Postgres</b> to extract attributes from KYC docs with <b>95% accuracy</b>, enabling <b>100+</b> RBC analysts to process each KYC document in &lt;1 minute.</li><li>• Delivered more than <b>\$1M+</b> estimated cost savings and projecting <b>\$30M+</b> in incremental earnings per refresh cycle by accelerating KYC turnaround and boosting client retention.</li><li>• Deployed and tested applications using <b>Terraform</b>, <b>Docker</b>, <b>GitHub Actions</b> integrated with OpenShift CI/CD pipelines</li></ul>	
<b>CanFocus Inc.</b> <i>Fullstack Software Engineer Intern</i>	April 2024 – August 2024 Markham, ON
<ul style="list-style-type: none"><li>• Engineered a full-stack ADHD clinic platform using <b>Next.js</b>, <b>Go</b>, and <b>MySQL</b>, enabling access to care for <b>800+</b> users.</li><li>• Designed and implemented patient-facing features tailored to ADHD needs, increasing client registrations by <b>150%</b>.</li><li>• Reduced user registration time by <b>75%</b> by streamlining API workflows and eliminating redundant validation.</li></ul>	
<b>QMIND &amp; RedBit</b> <i>Software Engineer</i>	October 2023 – April 2024 Kingston, ON
<ul style="list-style-type: none"><li>• Developed a construction contract assistant chatbot in <b>Python</b> capable of parsing 10+ gigabytes of PDFs, drawings, spreadsheets, and images, delivering accurate responses in under <b>30 seconds</b> to streamline contractor decision-making.</li><li>• Integrated <b>PyMuPDF</b>, <b>Pandas</b>, <b>GPT</b>, <b>TensorFlow</b>, and <b>KerasOCR</b> pipeline to extract and retrieve contract-critical data.</li></ul>	

## PROJECTS

<b>Course Planner</b> <a href="http://courseplanner.ca">courseplanner.ca</a>   <i>ReactJS, NodeJS, ExpressJS, MySQL, AWS</i>	
<ul style="list-style-type: none"><li>• Pioneered a <b>React.js</b> web application that reduced course planning time from <b>hours to minutes</b> by integrating automatic conflict detection and intuitive schedule visualization.</li><li>• Achieved <b>1700+</b> user sign-ups, capturing <b>5%</b> of the target student body within the first 12 hours.</li><li>• Built scalable middleware and backend using <b>ExpressJS</b> and <b>AWS RDS</b>, supporting <b>10,000+</b> daily user transactions.</li></ul>	
<b>SlideFlow: AI Presentation Assistant</b>   <i>ReactJS, Tailwind, Flask, Google Cloud Vision API, Sentence-BERT, Redis Storage</i>	
<ul style="list-style-type: none"><li>• Awarded <b>Best Use of Artificial Intelligence</b> at QHacks 2025, a 36-hour hackathon hosted at Queen's University</li><li>• Integrated speech-to-text API and built natural language voice commands using <b>Sentence Transformers</b> to navigate slides by content, combining semantic search with image recognition via <b>Google Cloud Vision API</b></li><li>• Constructed <b>React</b> components and <b>RestAPI</b> middleware to parse user intent, route and process API requests, supporting <b>10+</b> query types across slide content, text, and visuals.</li></ul>	

## TECHNICAL SKILLS

**Languages:** Python, Java, JavaScript, TypeScript, SQL, Go, C/C++  
**Technologies:** React, Next.js, Node.js, Express, FastAPI, PostgreSQL, MySQL, AWS, Azure, Docker, Terraform, OpenShift, Firebase, MongoDB  
**Concepts:** Data Structures & Algorithms, REST APIs, Databases, Testing, CI/CD, Operating Systems, Networking