

# Andrew Qiao

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## EDUCATION

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### University of Waterloo

Bachelor of Computer Science

Waterloo, ON

Sept. 2022 – Apr. 2026

- GPA: 3.9
- Courses: Data Structures and Algorithms, Object-Oriented Programming, Linear Algebra, Calculus, Probability

## EXPERIENCE

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### IBM

Incoming Software Developer Intern

Jan. 2024 – Apr. 2024

Toronto, ON

- Scheduled to complete a 16-week internship developing an enterprise data platform for IBM Technology Consulting

### University Health Network

Software Developer Intern (PMCC AI) | React.js, Next.js, TypeScript, Python, Google Cloud

Oct. 2023 – Dec. 2023

Toronto, ON

- Evaluating AI effectiveness in diagnosing **100+** health conditions through a platform integrated with GPT-4V
- Assisting **8 clinicians** at Canada's largest research hospital in generating actionable insights by cleaning, classifying, and displaying model outputs into structured JSON datasets

### TD Asset Management

Software Developer Intern (Portfolio Analytics) | React.js, Django, Python, JavaScript, SQL

May 2023 – Aug. 2023

Toronto, ON

- Developed a distributed system to defer lengthy portfolio model recalculations using Celery and Python, saving Portfolio Managers **10+ hours a week** in waiting on synchronous tasks
- Automated trade report generation using Django and SQL, removing **5+ hours a week** of repetitive data entry
- Reduced tool loading speed by **67%**, removing unnecessary API calls and adhering to React.js best practices
- Implemented thorough testing frameworks using the Python unittest library, fixing **20+ bugs**

### University of Toronto

Research Engineer Intern (IHPME) | OpenAI API, React.js, Next.js, Google Cloud

Oct. 2022 – Apr. 2023

Toronto, ON

- Supervised by Dr. M. Andiappan [🔗](#) and Dr. G. Hadfield [🔗](#) in analyzing AI's impact on the workforce
- Deployed an AI-powered survey platform to streamline data collection processes for **500+ participants**
- Contributed to a **university-partnered collaboration with OpenAI**, resulting in the study's first manuscript being accepted into the European Group of Organizational Studies (EGOS) conference

## PROJECTS

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### RE/MAX Pre-Construction App [🔗](#) | React.js, Node.js, Google Cloud, Notion API

Apr. 2023 – Aug. 2023

- Architected a real estate application [🔗](#) to optimize property marketing for **240+** RE/MAX agents
- Integrated a robust CMS for **\$1B+** pre-construction listings and blogs using Google Sheets API, Google Maps API, Notion API, and Node.js, decreasing content upload time by **50%**
- Queried APIs and CMS to display listings in an intuitive UI, aiding **100+ clients** in finding their dream home

### Pethsapp [🔗](#) | Flutter, Dart, Firebase, Google Cloud

Jun. 2021 – Aug. 2023

- Led **team of 5** in developing my former high school's mobile app, used by **1200+** students, staff, and parents
- Reached **Top 15 on the Apple App Store Education Chart**

## LEADERSHIP

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### University of Waterloo Data Science Club

VP of Web Development | React.js, Next.js, Node.js, Google Cloud, Resend API

Oct. 2022 – Present

Waterloo, ON

- Leading team of **6 developers** in revamping the club website [🔗](#), resulting in **15K Google search impressions**
- Automated sponsorship outreach using Node.js and Resend API, resulting in **5 potential sponsor** connections
- Delivering a hackathon and workshops on a variety of Data Science and career-related topics to **400+** students

## SKILLS

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**Languages:** JavaScript, TypeScript, Python, Node.js, SQL, C++, C, HTML, CSS

**Technologies:** React.js, Next.js, MongoDB, Django, Flask, Firebase, React Native, Pandas, Numpy, Google Cloud