

Andrew Qiao

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EDUCATION

University of Waterloo

Bachelor of Computer Science

Waterloo, ON

Sept. 2022 – Present

- GPA: 87.4
- Courses: Data Structures and Algorithms, Object-Oriented Programming, Linear Algebra, Calculus, Probability

SKILLS

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

Technologies: React.js, Next.js, React Native, PostgreSQL, MongoDB, Django, Flask, Firebase, Google Cloud

EXPERIENCE

IBM

Software Developer Intern

Jan. 2024 – Apr. 2024

Toronto, ON


- Engineering a rules-based anomaly detection system to verify **\$10B+** in insurance claims using Python and SQL

University Health Network

Software Developer Intern

Oct. 2023 – Dec. 2023

Toronto, ON

- Deployed an app integrated with GPT-4V to evaluate AI's effectiveness in diagnosing **100+** medical conditions using Next.js, React.js, and Google Cloud
- Assisted **8 clinicians** at Canada's largest research hospital in assessing AI's applicability for clinical care and education, contributing to published medical research 

TD Asset Management

Software Developer Intern

May 2023 – Aug. 2023

Toronto, ON




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

University of Toronto

Research Developer Intern

Oct. 2022 – Apr. 2023


Toronto, ON

- Contributed to a **university-partnered study with OpenAI**  on the workforce's perception of AI under the supervision of Dr. M. Andiappan  and Dr. G. Hadfield 
- Streamlined data collection for the study's **500+ participants** by deploying an AI-powered survey platform built on React.js, Next.js, OpenAI API, and Google Cloud

PROJECTS

RE/MAX Pre-Construction App | *React.js, Node.js, Google Cloud, Notion API*

Apr. 2023 – Aug. 2023

- Developed a real estate application  to optimize property marketing for **240+** RE/MAX agents
- Decreased content upload time by **50%** by integrating a robust CMS for **\$1B+** pre-construction listings and blogs using Google Sheets API, Google Maps API, Notion API, and Node.js
- Aided **100+ clients** in finding their dream home by querying APIs and CMS to display listings in an intuitive UI

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

University of Waterloo Data Science Club

VP of Web Development

Oct. 2022 – Dec 2023

Waterloo, ON

- Led a team of **6 developers** in revamping the club website , resulting in **20K Google search impressions**
- Connected with **5 potential sponsors** by automating sponsor outreach using Node.js and Resend