

Andrew Qiao

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EDUCATION

University of Waterloo

Waterloo, ON

Bachelor of Computer Science

Sept. 2022 – Aug. 2026

- GPA: 3.9, Dean's List (2022 – Present)
- Courses: Data Structures and Algorithms, Object-Oriented Programming, Linear Algebra, Calculus, Probability

SKILLS

Languages: JavaScript, TypeScript, Python, SQL, C++, C, HTML, CSS

Libraries/Frameworks: React.js, Next.js, React Native, Django, Flask, Node.js, LangChain, Tailwind CSS

Databases/Cloud: PostgreSQL, SQL Server, MongoDB, Redis, Vercel, Google Cloud, AWS, Firebase, Upstash

EXPERIENCE

Snowflake

Apr. 2024 – Present

Software Engineer Intern

Bellevue, WA

- Architecting UI component APIs using **React.js and TypeScript**, empowering developers across **5 teams** to build more performant, accessible, and intuitive interfaces
- Deploying user experience enhancements across platforms used by **15,000+ users** from **3,000+ organizations**
- Designing and implementing a novel E2E testing framework using Jenkins cron jobs, Docker, Groovy, Bash, Git, and Datadog, saving **200+ hours annually** in manual testing before weekly product releases
- Driving the adoption of a unified system to author, maintain, and analyze **100+ E2E tests** across **7 teams**

IBM

Jan. 2024 – Apr. 2024

Software Developer Intern

Toronto, ON

- Shipped a generative AI application for code explanation and test-case generation on **12M+ lines of code** for **100+ developers** using Amazon Web Services (AWS), React.js, and IBM's WatsonX AI platform
- Increased code explanation accuracy from **30% to 90%** by implementing retrieval-augmented generation (RAG) using LangChain, a FAISS vector database, Python, and the Mixtral 8x7B LLM
- Engineered a rules-based anomaly detection system to verify **\$10B+** in insurance claims using Python and SQL

University Health Network

Oct. 2023 – Dec. 2023

Software Developer Intern

Toronto, ON

- Developed 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 Bank

May 2023 – Aug. 2023

Software Developer Intern

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

Oct. 2022 – Apr. 2023

Research Developer Intern

Toronto, ON

- Contributed to a **university-partnered study with OpenAI** [↗](#) on AI alignment in the workplace 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

PROJECTS

Pethsapp [↗](#) | *React Native, Firebase, Google Cloud, Sanity*

Jun. 2021 – Present

- 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**