Eric Xie

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Education

University of Waterloo	Expected Apr. 2027
Bachelor's of Computer Engineering, Co-op	*Waterloo, ON*

Courses: Data Structures and Algorithms, Object-Oriented Programming, Operating Systems, Concurrency

Experience

Gem — Jan. 2026 – Apr. 2026
Software Engineer Intern — *San Francisco, CA*
- Incoming Winter 2026

Shopify — Jan. 2025 – Apr. 2025
Software Engineer Intern — *Toronto, ON*
- Engineered webhooks for **2+ million** merchants using **Ruby on Rails** and **Kafka** to update Milestones awards status
- Rebuilt the Shopify Ventures website by migrating to **React**, **Hydrogen**, and **GraphQL**, improving load time by **50%**
- Reduced SQL injection attempts in supply store by **98%** through input sanitization and parameterized queries
- Improved perceived performance of cart checkout experience by **25%** by implementing optimistic rendering

Lawbrokr — May 2024 – Aug. 2024
Software Developer Intern — *Toronto, ON*
- Developed a Google Ads manager optimizing **$50k+** monthly spend using **GPT-4** for automated keyword generation
- Built an image processing pipeline using **GCP** and **Cloud CDN** with automatic compression for **15k+** daily requests
- Led the development of a website builder used by **95+** law firms to create landing pages with **Rails** and **PostgreSQL**
- Optimized page rendering to reduce LCP delay by **40%** through lazy-loading using **Turbo Frames** and **Tailwind CSS**

BMO Financial Group — Sep. 2023 – Dec. 2023
Software Engineer Intern — *Toronto, ON*
- Architected and built an S3 cleanup system handling **100k+** daily deletions using **AWS Lambda** and **PostgreSQL**
- Implemented AES encryption for **1+ million** sensitive customer records using **Python** and **AWS KMS**
- Optimized data fetching speeds by **50%** for OCR document tagging by implementing **Flask** in-memory caching
- Reduced pre-release testing time by **80%** by automating unit tests using **Bash** and **pytest** with **90%** code coverage

Brookfield — Jan. 2023 – Apr. 2023
Software Developer Intern — *Toronto, ON*
- Engineered annuity pricing tools using **Python** and **NumPy** to improve business processing for over **$1 billion** in bids
- Overhauled a bid preparation dashboard using **React** and **TypeScript**, enhancing bid approval speed by **33%**
- Built a mail merge application automating **2+ hour/day** manual process for populating contracts and investor decks

Community & Leadership

Wat Street — Jan. 2025 – Aug. 2025
Backend Developer — *Waterloo, ON*
- Developed a forward-testing API using **Flask**, **PostgreSQL**, and **Docker** to evaluate trade algorithm performance
- Implemented a containerized task scheduler using **Huey** and **Redis** that executes trading algorithms at set intervals
- Architected a normalized **PostgreSQL** database schema to support **500+** daily simulated trading operations

Hack the North — Mar. 2024 – Oct. 2024
Frontend Organizer — *Waterloo, ON*
- Organized Canada's largest student-run hackathon hosting **1500+** hackers annually from **70+** countries
- Developed hackthenorth.com using **React** and **Styled Components**, attracting **250k+** monthly visitors
- Built a responsive hacker application tool used to submit **10,000+** applications using **GraphQL** and **TypeScript**
- Spearheaded a volunteer management tool used by **500+** volunteers to schedule shifts and check-in attendees

Skills

Languages: Python, JavaScript, TypeScript, C/C++, Ruby, SQL
Frameworks/Libraries: React, GraphQL, Ruby on Rails, Flask, Tailwind CSS, Redux, Node, Express, Next
Developer Tools: PostgreSQL, Docker, Redis, AWS, GCP, Supabase, MongoDB, Firebase, OpenAI API, Prisma