Thomas Qi

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EDUCATION

University of Waterloo   Waterloo, ON
Bachelor of Computer Science   09/2023 – 04/2028
- CGPA: 3.92/4.0 (91.1%)

EXPERIENCE

Coinbase   **San Francisco, CA**
Software Engineer Intern – Institutional Trading   05/2026 – 08/2026
- Incoming SWE intern on the institutional team, working on fiat-to-crypto trading platforms (onramping).

BitGo   **Palo Alto, CA**
Software Engineer Intern – Electronic Trading   09/2025 – 12/2025
- Engineered a cron-scheduled **Go** data ingestion pipeline to ingest & store 2M+ user trades to **PostgreSQL**, enabling automatic LP settlement & eliminating a manual workflow to save ops 5 hours/week.
- Built an internal **NextJS** & **GraphQL** dashboard to visualize 2M+ trades, enabling ops to resolve anomalies 2.8× faster; cutting median load time by 58% (384ms to 163ms) using server-side pagination.
- Integrated **Prometheus** counters + SLO alerts for 3 services, cutting MTTR by 53% & alert noise by 66%.

Habtech Communications   **Mississauga, ON**
Software Engineer Intern   01/2025 – 04/2025
- Developed a construction project estimation system serving 250+ engineers & estimators across 3 companies, generating **$185,000+** in licensing revenue; built with **NextJS**, **ASP.NET**, & **MS SQL Server**.
- Deployed a **Jenkins** server on EC2 to enable CI/CD pipelines for 4 applications on **Docker**, automating container building & deployment from Git to Azure to save 5+ hours of monthly manual build time.

Atomic Dev Inc.   **Los Angeles, CA**
Software Engineer Intern   04/2024 – 08/2024
- Engineered the MVP of an AI-based website builder at an early-stage startup using **Express** & **React**.
- Engineered & deployed an internal tool that accurately generates SQL migration scripts from git logs, saving 5+ hours of weekly labour using chain-of-thought prompting, NextJS, OpenAI API, & AWS EC2.
- Migrated legacy endpoints from PHP to Express, improving response time by 74% (432ms to 113ms).

University of Waterloo   **Waterloo, ON**
Undergraduate Research Assistant – Tool-Augmented LLMs   05/2025 – Present
- Developed a **Python Selenium** web scraper that gathered issue and commit data from 350+ GitHub repositories (75K+ commits) to construct benchmarks evaluating CodeLLMs on real refactors and bug-fixes.
- Developed a language-agnostic parser & MCP server that improves AI coding agent problem-solving benchmarks by 5% (on average), by enabling LLMs to query call-graphs for large repositories.

PROJECTS

SyncSpark | [Github] | *(NextJS, Express, Socket.io, Redux, TailwindCSS, Docker, AWS)*
- Engineered a full-stack, low-latency real-time collaborative code editor that lets multiple developers edit & run code together & chat live using Monaco Editor + **Websockets** (< 50 ms average round-trip).

SKILLS

Languages: C/C++, C#, Go, TypeScript, SQL, Python, GraphQL
Libraries/Frameworks: ASP.NET, NextJS, Express, Redux, TailwindCSS, Websockets, Entity Framework, Flask
Developer Tools: AWS, Azure, Vercel, Git, Redis, Docker, Kubernetes, Kafka, SQL Server, PostgreSQL