

# Terry Su ☺

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## EDUCATION

### University of Waterloo 🏰

Bachelor of Computer Science - BCS

Waterloo, ON

Sep. 2022 – May 2026

- GPA: 3.9/4.0
- Activities/Societies: UW Running & Marathon Club, UW Cycling Club, Waterloo Aerial Robotics Group

## EXPERIENCE

### Robinhood 🌿

Backend Engineer Intern — Core Engineering

May 2024 – Aug. 2024

Menlo Park, CA

- **Personally introduced Haikyuu!! (my favourite anime) to Vladimir Tenev (CEO of Robinhood).**
- Spearheaded an overhaul of Robinhood's HTTP-to-gRPC-to-Golang transcoding schemas for sending tokenized assets, decreasing transaction execution speeds by **up to 6x** for **10M+ platform users**.
- Owned the integration of Kubernetes clusters for querying real-time forex quotes, allowing for a **99.99%+** accuracy in cross-currency fee estimations.

### Rainmaker Finance, Inc. (YC W23) 💧🏠

Software Engineer Intern — Non-Custodial Wallet

Jan. 2024 – Apr. 2024

New York City, NY

- Boosted average app visit times **5min (+20%)**, by automating weekly "Airdrop Alert" blog posts through web-scraping cron jobs utilizing Puppeteer, Cheerio, OpenAi, and the Ghost CRM API.
- Reduced risk of **thousands** in gas sponsorship by abstracting Redis caching features and implementing an E2E rate-limiting system using TRPC, Zod, and Prisma.
- Re-built Github Actions CI pipeline, decreasing test suite runtimes up to **50%** by dockerizing services and optimizing execution with YAML scripting.
- Integrated ERC20 token investment strategies, accumulating **100+** user transactions and **13k USD** transacted in under **1 month** by leveraging Ethers smart contracts and call-data execution with ZeroDev.

### Dandelion Networks 🌼

Software Engineer Intern — Distributed Systems

May 2023 – Aug. 2023

Toronto, ON

- Deployed an essential end-to-end React Native NFC card scan flow for digitally storing collectible game cards on AWS DynamoDB, impacting **1000+** alpha testers and a **\$10M+** liquidity pool.
- Fully refactored protocol buffers package using Golang, Gomega, Gogink, and Bash scripting, sustaining the currency of the blockchain, improving proto file compilation time by **60%**, and test coverage by **10%**.
- Leveraged the Cobra Golang CLI and gRPC, to implement the internal P2P node state algorithm as a core feature of the Go SDK architecture.

### Hack+ 🌈

Software Engineer Intern — Dash Platform

Mar. 2022 – Aug. 2022

Fremont, CA

- Built Dash2, a financial management platform, providing service to **730+** student founders at Hack+.
- Created and serviced API routes/endpoints with Express.js, Google Storage, and Next.js to minimize the number of manual receipt uploads and transactions.

## PROJECTS

### RE/MAX Pre-Construction App 🏡 | Next.js, Node.js, Typescript, Figma, Google Cloud

Apr. 2022 – Present

- Designed and implemented a full-stack Next.js application to streamline operations for **240+** REMAX agents.

### Assembly Language Compiler 🏰 | C++, MIPS Assembly, Google Test

Sep. 2023 – Jan. 2024

- Developed a MIPS Assembly compiler (scanner, SLR parser, semantic analyser, and code generator) in C++.

## SKILLS

**Languages:** Python, Java, JavaScript, TypeScript, Golang, C, C++, VHDL, ARM, HTML, CSS, Sass, Solidity

**Technologies:** Linux, Git, Node.js, React.js, React Native, SQL, MongoDB, Tensorflow, Redis, Docker, Bash

**Concepts:** Machine Learning, Fullstack, Data Science, Agile Methodologies, Backend, Systems, Databases, API