

Anthony Chen

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Education

University of Waterloo

Bachelor of Software Engineering, Honours

Sep 2023 – Present

Combinatorics and Optimization Minor

- 90% Average, Cohort Academic Representative, President's Scholarship of Distinction

Experience

Jackal Labs

Software Engineer Co-op

Jan 2025 – Apr 2025

Waterloo, Canada

- Built transaction relayer enabling users to buy, use, and share cloud storage across **8 different blockchains**
- Implemented backend functionality and REST API authentication for **S3-compatible** object storage service
- Audited distributed storage provider code to improve stability and security of **500+ TB** in available storage

Ubineer

AI Engineer Intern

Dec 2024 – Dec 2024

Toronto, Canada

- Extracted **1600+ data points** of financial guidance from SEC 8-K filings using Natural Language Processing
- Prepared and presented report on BeautifulSoup4 scraping, POS tagging, and **NLP chunking** best practices

Amazon

Software Engineer Intern

May 2024 – Aug 2024

Vancouver, Canada

- Designed and implemented **20M+ row** data warehouse microservice with live updates and ETL operations
- Created Athena database for on-call developers, supporting standard SQL and speeding up queries by **30x**
- Developed BFF and React UI allowing other teams to submit sanitized queries, view results, and export data
- Wrote backfill script, configured automatic backups, and imported **4 years** of past data into the warehouse

RubixDAO

QA Engineer

May 2021 – Aug 2021

Toronto, Canada

- Contributed to **decentralised lending** platform with cryptocurrency collateral and USD-based digital token
- Wrote **90+ tests** with Pytest to achieve 100% smart contract code coverage, implemented on-chain demo

Projects

UWMap

C++, ESP32, FastAPI, Next

- Programmed and deployed **8 ESP32 microcontrollers** track and report on crowd density across campus
- Collaborated with other developers to create and deploy map with **real-time updates** and historical data

dogecoin-unofficial

Bash, GitHub, Linux, Snap

- Investigated **40+ reports** of issues from Linux users attempting to install the official Dogecoin Core software
- Wrote Bash scripts to retrieve official binaries, verify cryptographic developer signatures, and run **250+ tests**
- Packaged Snap for amd64, arm64, and i386, installations in **123 countries**, contributions merged upstream

COSine

CSS, HTML, Node, React

- Won **2nd Overall** at Major League Hacking's PrideHacks event with a participatory multimedia experience
- Integrated OpenAI LLM with pre-determined narrative paths to enhance awareness of modern social issues

Skills

Languages | ASM, Bash, C, C++, Go, Java, JavaScript, PHP, Python, Rust, Scala, Solidity, SQL, TypeScript, VHDL

Technology | DynamoDB, Flask, GCP, Lambda, MongoDB, Node, NumPy, PostgreSQL, Protobuf, Qt, React, S3

Development | Colab, Docker, GDB, Ghidra, Git, Gradle, GTest, Jest, Linux, Make, Pytest, Valgrind, Wireshark