

# Anthony Chen

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## Education

### University of Waterloo

Bachelor of Software Engineering, Honours

Sep 2023 – Present

Combinatorics and Optimization Minor

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

## Experience

### Software Engineer Co-op

Jackal Labs

Jan 2025 – Apr 2025

Waterloo, Canada

- Working on the Jackal Protocol to build a distributed, long-lasting, and fully replicated cloud storage platform

### AI Engineer Intern

Ubineer

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

### Software Engineer Intern

Amazon

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

### QA Engineer

RubixDAO

May 2021 – Aug 2021

Toronto, Canada

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

## Projects

### UWMap | C++, ESP32, FastAPI, Next.js

- Programmed and deployed **8 ESP32 microcontrollers** across campus to track and report crowd density
- 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 **95 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

### CTFOJ | Bootstrap, Pytest, Python, SQL

- Jointly created Flask platform to host cybersecurity challenges and contests for **1350+ registered users**
- Used CAPTCHA, backups, rate limiting, and 2FA to ensure **99.99% availability** and prevent data breaches

## Skills

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

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

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