Anthony Chen

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🎓 Education

University of Waterloo   Sep 2023 – Present
Bachelor of Software Engineering, Honours   *Combinatorics and Optimization Minor*

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

🕐 Experience

Jackal Labs   Jan 2025 – Apr 2025
Software Engineer Co-op   *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 reliability and security of **500+ TB** in available storage

Ubineer   Dec 2024 – Dec 2024
AI Engineer Intern   *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   May 2024 – Aug 2024
Software Engineer Intern   *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   May 2021 – Aug 2021
QA Engineer   *Toronto, Canada*

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

🛠 Projects

○ **UWMap**   C++, ESP32, FastAPI, Next

- Programmed and deployed **8 ESP32 microcontrollers** to track and analyze 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-constructed 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