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

Software Engineer Co-op — Jan 2025 – Apr 2025
Jackal Labs — *Waterloo, Canada*

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

AI Engineer Intern — Dec 2024 – Dec 2024
Ubineer — *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 — May 2024 – Aug 2024
Amazon — *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 — May 2021 – Aug 2021
RubixDAO — *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, GDB, GTest, Ghidra, Git, Gradle, Jest, Linux, Make, Pytest, SSH, Snap, Valgrind, Wireshark