

Anthony Chen

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📖 Skills

Languages | Python, C++, C, Bash, Java, JS, TypeScript, PHP, SQL, Solidity, PowerShell, GLSL

Technology | Flask, Node, React, PyCrypto, jQuery, Django, MongoDB, SFML, NumPy, Pygame

Development | Linux, Git, GitHub, Pytest, Snap, GDB, Make, Wireshark, Valgrind, Gradle, LaTeX

🔧 Projects

🔗 **UWMap** | C++, ESP32, FastAPI, Next.js

- Programmed and deployed **8 hardware nodes** across campus to track and report crowd densities via API

🔗 **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 multiple developer signatures, and run **250+ tests**
- Packaged Snap for amd64, arm64, and i386, active users in **35+ countries**, accepted and merged upstream

🔗 **COSine** | CSS, HTML, Node, React

- Won **2nd Overall** in Major League Hacking PrideHacks, mid-hackathon rebuild from JavaScript to TypeScript
- Integrated OpenAI with prewritten storylines to generate interactions that **enhance societal awareness**

🔗 **CTFOJ** | Bootstrap, Pytest, Python, SQL

- Collaboratively created Flask platform with **1300+ registered users** to host interactive security challenges
- Implemented admin console, logs and **90% coverage** with Pytest; fixed Markdown render and SQL bugs
- Used CAPTCHA, backups, rate limiting, and 2FA to ensure **99.99% availability** and prevent security breaches

🔗 **2022-robot** | C++, GitHub, Gradle, WPILib

- Led a team of **4 developers** to create autonomous and tele-operated code to control drivetrain subsystem
- Wrote control code using slew rate limiting with a **PID controller** to improve robot acceleration and turning

🕒 Experience

Software Member

Waterloo Rocketry

May 2023 – Present

Waterloo, Canada

- Took on sensor setup and operation-critical telemetry dashboard creation/monitoring during **5 engine tests**
- Maintained rocket engine simulator and migrated **10+ simulation parameters** to new configuration system

Team Captain

FIRST Robotics Competition

Jun 2022 – Jun 2023

Toronto, Canada

- Co-founded team, recruiting over a hundred students and raising **\$75,000+** with demos and outreach events
- Led team to qualify for and compete in world championships with **daily meetings** during inaugural season
- Coordinated build process by planning **20+ workshops** for the building, electrical, and software subteams

Co-Founder

X Series CTF

Oct 2020 – Jun 2023

Toronto, Canada

- Promoted security awareness with **weekly workshops** on cryptography, forensics, and OSINT research skills
- Organised contests and created challenges with **150,000+ total submissions** on the above CTFOJ platform

QA Engineer

RubixDAO

May 2021 – Aug 2021

Remote

- Wrote **90+ smart contract tests** with PyTest to achieve 100% test coverage, contributed to on-chain demo

🎓 Education

University of Waterloo

Bachelor of Software Engineering, Honours

Combinatorics and Optimization Minor

- Cohort Academic Representative

Sep 2023 – Apr 2028

Waterloo, Canada

90% Cumulative Average