

Anthony Chen

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📖 Skills

Languages: Python, C++, C, Bash, Java, HTML, CSS, JS, TypeScript, PHP, SQL, Solidity, Kotlin, PowerShell, GLSL

Technology: Flask, WPILib, Node, React, PyCrypto, Bootstrap, jQuery, Django, MongoDB, SFML, NumPy, Pygame

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

🔧 Projects

🔗 **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 Gitian-generated signatures, and run **250+ wallet 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 **1200+ 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

🔗 **superlumeric** | C, C++, GDB, Valgrind

- Designed encrypted password manager with **easy migrations** from or to other password management apps
- Ensured user safety with GCC compiler hardening flags, provided Makefiles, and fully **reproducible builds**

🕒 Experience

Aquatic Program Support

City of Toronto

May 2023 – Aug 2023

Toronto, Canada

- Ensured PCI security compliance, built database queries, and acted as IT support for **25+ aquatics programs**

Captain and Co-Founder

FIRST Robotics Competition Team 8574

Nov 2021 – Jun 2023

Toronto, Canada

- Co-founded team, recruiting **120+ students** and raising **\$75,000+** with demonstrations and outreach events
- Coordinated build process by planning **20+ workshops** for the building, electrical, and software subteams
- Led team to qualify for and compete in world championships with **daily meetings** during inaugural season

Co-Founder

MGCI CTF (Cybersecurity) Club

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

Web Manager

The Reckoner

May 2022 – May 2023

Toronto, Canada

- Used Cloudflare caching, AWS EC2, and GCP to **reduce hosting costs by 50%** and improve site availability
- Consulted with admin and students to identify and resolve UI pain points on the **2000+ monthly hits** site

🎓 Education

University of Waterloo

Bachelor of Software Engineering, Honours

Waterloo, Canada

Sep 2023 – Apr 2028

Combinatorics and Optimization Minor

- Amazon Future Engineer Scholarship
- Ted Rogers Future Leader Scholarship