Ian Kilty

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Education

Colorado State University — Fort Collins
Bachlors in Computer Science, Networking and Security — Aug. 2022 - Present - Dec. 2025
GPA: 3.76

Work Experience

ICR Cyber Engineer Internship — Aurora, Colorado
Cyber Intern — May 2024 - Aug. 2024, May 2025 - Present

- Binary Reverse Engineering
- Embedded Systems Programming
- Contribution to Real Government Contracts

CSU Division of IT — Fort Collins, Colorado
Cybersecurity Intern — Jan. 2025 - Present

- University Incident Response
- Web Server Security Analysis

CSU Engineering Technology Services — Fort Collins, Colorado
IT Support — Aug. 2023 - Present

- Authorized Super User Access
- Customer Support

Skills

Programming Languages:	Rust, C, C++, Assembly, Javascript, Java, Python, SQL
Frontend Development:	React, Web Assembly
Version Control:	git, Github, Scrum
Security Tools:	Ghidra, Wireshark, FlareVM, Metasploit, nmap, Burp Suite
Operating Systems/Linux Distributions:	Debian, Fedora, Arch, Kali, Windows 10/11

Projects

filler *React, Rust, Web Assembly* — 0xkilty.github.io/filler
A website to play the game "filler" and an algorithm to play against made with Rust.

number-theory *Python* — 0xkilty.github.io/number-theory
An open source Python package with various number theory functions along with documentation.

information-compressor *C++* — github.com/0xKilty/information-compressor
A file compressor that compresses files using Huffman coding.

Awards

3rd in CSU VR Hackathon — Colorado State University, Oct. 2022

4th in CS @ Mines Programming Competition — Colorado School of Mines, April. 2023

Relevant Classes

CS 370	Operating Systems	**CS 457**	Networking and the Internet
CS 356	Systems Security	**CS 456**	Modern Cybersecurity
CS 320	Algorithms Theory and Practice	**CS 453**	Compiler Construction
JTC 300	Strategic Writing	**CS 430**	Database Systems
MATH 360	Mathematics for Information Security	**MATH 463**	Post Quantum Cryptography

Presentations

Basics of Malware Analysis - *9/27/2023* — Hashdump Cybersecurity
Reverse Engineering, Virtualization, Executable Analysis, Safe Deployment of Malware

Open Source Computational Number Theory - *4/13/2024* — SUnMaRC
number-theory Python Package, Mathematics behind cryptography, Project Based