Eugene Chou

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EDUCATION

University of California, Santa Cruz Jun. 2020 – Present
Computer Science and Engineering Ph.D

University of California, Santa Cruz Sep. 2020 – Jun. 2022
Computer Science and Engineering M.S.

University of California, Santa Cruz Sep. 2016 – Jun. 2020
Computer Science B.S. with Honors

SKILLS

Programming: C, Rust, Python
Languages: English, Taiwanese, Chinese

EXPERIENCE

Storage Systems Research Center | Graduate Student Researcher Jun. 2019 – Present

- Designed and integrated Lethe, a system that provides truly portable, fine-grained secure deletion, into OpenZFS.
- Wrote an EXT4 file system parser for Artifice, a steganographic file system that provides plausible deniability.

Jack Baskin School of Engineering | TA, Tutor, and Student Instructor Sep. 2018 – Present

- Served as a TA for the *Computer Systems and C Programming* course.
- Served as a tutor and reader for both the *Computer Systems and C Programming* course and the *Introduction to Operating Systems* course.
- Instructed an undergradute-led seminar on basic information theory and cryptography, which required designing programming assignments for students to demonstrate knowledge with.

PROJECTS

Lempel-Ziv Suite | github.com/euugenechou/lempel-ziv-suite

- A suite of programs showcasing different implementations of LZ78 and LZW lossless data compression algorithms.
- The exploration of these algorithms and design of their respective implementations became an accepted senior thesis.

GitLab Canvas Utilities | github.com/euugenechou/gitlab-canvas-utils

- A set of scripts to automate GitLab repository generation using rosters generated by Canvas.
- Intended to streamline the creation and management of student repositories when administering a course.

Secure Walkie-Talkie | github.com/euugenechou/secure-walkie-talkie

- A secure walkie-talkie protocol for communication over insecure channels in C++.
- Utilizes Diffie-Hellman key exchange, RSA signing, and SHA3-based tagging and verification.