Eugene Chou

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Experience

Graduate Student Researcher — Center for Research in Systems and Storage Sep 2020 - Present
- Research on designing, building, optimizing, and formally verifying crash-consistent secure delete file systems.

Teaching Assistant, Tutor — Jack Baskin School of Engineering Sep 2018 - Present
- TA'ed *Computer Systems and C Programming* (5x) and *Principles of Computer Systems Design* (1x).
- Tutored *Computer Systems and C Programming* (2x) and *Introduction to Operating Systems* (1x).

Quarterly Adjunct Lecturer — Santa Clara University Mar 2024 - Jun 2024
- Taught *Abstract Data Types and Data Structures*.

Graduate Student Intern — Sandia National Laboratories Jun 2023 - Sep 2023
- Developed libraries for efficient QEMU virtual machine introspection techniques.

Education

Ph.D. in Computer Science and Engineering — UC Santa Cruz Sep 2020 - Present
- Advisors: Prof. Darrell Long, Prof. Andi Quinn

M.S. in Computer Science and Engineering — UC Santa Cruz Sep 2020 - Jun 2022
- Thesis: "Lethe: It Won't Take Long to Forget"

B.S. with honors in Computer Science — UC Santa Cruz Sep 2016 - Jun 2020
- Thesis: "Exploring and Implementing Lempel-Ziv-Based Algorithms"

Skills

Programming	Rust, C/C++, Python
Areas	File systems, Operating systems, Security, Formal verification
Languages	English, Mandarin, Taiwanese

Selected Publications

Lethe: Secure Deletion by Addition — CHEOPS '23
- A secure delete file system for arbitrary storage media with efficient key management using keyed hash forests.

Selected Projects

GitLab Canvas Utilities — github.com/euugenechou/gitlab-canvas-utils
- Utilities that connect Canvas with GitLab to manage repositories generated from Canvas course rosters.
- Used by courses in UC Santa Cruz's CSE and ECE departments to manage course infrastructure and grading.

Lempel-Ziv Suite — github.com/euugenechou/lempel-ziv-suite
- An exploration of the Lempel-Ziv-based lossless data compression algorithms.

Lethe — github.com/euugenechou/zfs/tree/cheops23-artifact
- The Lethe secure delete file system implemented as an OpenZFS extension.