

GENO E. FOSSAS

geno@fossas.tech ◊ <https://fossas.tech>

EDUCATION

Northeastern University May 2025
MS, Computer Science Boston, MA
GPA: 3.7/4.0

University of Central Florida May 2021
BS, Computer Science Orlando, FL
Burnett Honors Scholar, ACM-W@UCF Member

EXPERIENCE

MIT Lincoln Laboratory Sept 2023 - May 2025
Student Technical Assistant Lexington, MA

- ◊ Implemented changes to previous LLVM enforcement pass to support changes in temporal compartmentalization protection requirements.
- ◊ Extended Linux kernel code to enforce requirements with ARM PAC and MTE.
- ◊ Implemented an inter-procedural post-dominator calculation in Python to generate post-dominating nodes for Linux kernel modules.

Summer Research Intern May 2023 - Sep 2023

- ◊ Modified implementation of existing LLVM pass supporting automatic enforcement of spatial compartmentalization framework.

Northeastern University Sep 2022 - May 2025
Graduate Teaching Assistant Boston, MA

- ◊ Taught students operating system principles and security practices through office hours and one-on-one instruction.

Graduate Research Assistant Sep 2021 - Dec 2024

- ◊ Developed Linux kernel memory security tools utilizing features of Intel and ARM platforms and compiler-assisted security policies.

Amazon Web Services May - Aug 2021 & 2020
Software Development Engineer Intern Seattle, WA

- ◊ Created React widgets and web consoles to simplify customer workflows in AWS Service Quotas and AWS Single Sign-On. Integrated widgets with internal RESTful APIs.

University of Central Florida Oct 2019 - May 2021
Undergraduate Research Assistant Orlando, FL

- ◊ Modified LLVM's register allocator to support a side-channel free architecture.

TECHNICAL SKILLS

Languages	C, C++, Python, JavaScript, HTML, CSS, Java, Bash
Libraries and Frameworks	React, Redux, Jest
Tools and Runtimes	Linux, Clang, LLVM, Git, Node.js

COMMUNITY INVOLVEMENT

ACM-W@UCF Aug 2020 - Apr 2021
Student Mentor University of Central Florida

- ◊ Advised freshmen on career preparation and undergraduate research.

AWARDS AND RECOGNITIONS

AnitaB.org Grace Hopper Conference 2020 Student Scholar