# GENO E. FOSSAS

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#### **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 Student Technical Assistant

Sept 2023 - May 2025

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

C, C++, Python, JavaScript, HTML, CSS, Java, Bash Languages

Libraries and Frameworks React, Redux, Jest

Tools and Runtimes Linux, Clang, LLVM, Git, Node.js, Docker

## 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

Grace Hopper Conference 2020 Student Scholar AnitaB.org