

EXPERIENCE

Full Stack Developer (Intern)

Summer 2020

40Geo, Houston, TX

Sole software developer for FirstWatch, a reporting software for marine life monitoring to help comply with ocean noise regulations, utilized JavaScript, Elasticsearch, Vue, and Git

TAMUctf Developer

Fall 2019 - Present

Texas A&M, College Station, TX

Designing and creating challenges on various cybersecurity topics such as binary exploitation, reverse engineering, and web exploitation for our university CTF competition and the regional championships for SkillsUSA Cybersecurity

Teaching Assistant

Fall 2019 - Present

Texas A&M, College Station, TX

Lead CS labs, grade assignments (developed software to automate grading), assist with homework and exam design, and maintain office hours

Software Engineering Intern

Summer 2018 & 2019

Trintech, Dallas, TX

Worked on frontend with Angular/Typescript, backend with Java EE and containerized software allowing developers to test locally

EDUCATION

Bachelor of Science - Computer Science

Fall 2017 - Fall 2021

Texas A&M University

- Minor - Cybersecurity
- Major GPA: 3.9 ; Overall GPA: 3.67

VOLUNTEERING

Instructor, ShiP.py

May 2020 - June 2020

Helped design and teach an introductory class on Python targeted at people with minimal programming experience so that they could learn a new skill during the shelter-in-place order. We had over 100 people sign up, primarily from students and industry professionals in non computer science fields.

CTF Lead, TAMU Cybersecurity Club

May 2020 - Present

PROJECTS

Rusty CHIP8 Rust

Emulator for the CHIP8 VM

Sky Menu Rust, Qt

Linux application launcher

Transmogrify Rust

TUI Hex Editor optimized for binary patching functions

Nand2Tetris HDL Visualizer Rust

Tool to visualize Nand2Tetris HDL files as a graph

CTF Writeups <https://writeups.teddyheinen.com>

Collection of writeups for CTFs

Schadenfreude Java

Ghidra plugin for automatic vulnerability discovery

ACTIVITIES & AWARDS

DARPA FETT Bug Bounty Competition, completed all challenges Summer 2020

SMC3 CTF, 3rd place Summer 2020

Dean's Honor Roll Spring 2019

TAMU Vulnerability Research Club Presenter Spring 2021-Present

SKILLS

Programming Languages Java, C++, Python, Rust, Kotlin, TypeScript

Cybersecurity Reverse Engineering, Binary Exploitation

Other x86 Assembly, Ghidra, Shell scripting, Docker, Linux, Git, Object Oriented Programming, LaTeX, GDB