

BAILEY DEFINO

E: bdefino[AT]cs[DOT]stonybrook[DOT]edu

T: [NUMBER REDACTED]

W: bdefino[DOT]github[DOT]io

[ADDRESS REDACTED]

Current Position

2019-Present

Undergraduate Research Assistant, PragSec Laboratory, Stony Brook University

Performing a post-mortem analysis on a recent strain of JavaScript credit card skimmers.

Leading development of a browser extension for their detection and prevention.

Current Classes

⇒ **Graduate Seminar in Computer Security**

Offensive Security • Advanced Systems Programming in UNIX/C

Education

Expected 2021

BS in Computer Science, Stony Brook University

2017

Advanced Regents Diploma, [TOWN REDACTED] Central High School

Skills

C • POSIX Shell • Python • JavaScript • Java • R

Parallel Programming • Dynamic Programming • Offensive/Defensive Programming • Network Programming • Pair Programming • Object-Oriented Programming

GCC • GDB • Git • Make • Valgrind • Kbuild • L^AT_EX • MS Office/LibreOffice

Void Linux

Projects

2020-Present

Loose Cluster

Coding an original decentralized clustering framework in pure C.

Experimenting with convolutional distributed algorithms.

2020

Evolutionary Programmer, bdefino[DOT]github[DOT]io/evolution.html

A PoC tool for randomly evolving an executable until it performs as expected.

Inspired by the conception of AI in CBS's "Person of Interest."

2019

Linux LKM Rootkit, with B. Valarezo, J. Wong, and J. Liu. github[DOT]com/bvalarezo/rootkit

Developed an extensible core for maintaining covert superuser access.

Sharpened teamwork skills and developed a more sophisticated understanding of operating systems.

2019-Present

Anonymized Private Messenger, with [NAME REDACTED].

Designing/implementing an extensible system for exchanging anonymized messages.

Exploring problems with network anonymity and experimenting with pair programming.

2019

Direct Machine Code Execution, bdefino[DOT]github[DOT]io/execs.html

A tool for testing machine code (via performing a buffer overflow on itself).

Grants, Honors, & Awards

2017

Computer Science Scholarship, [TOWN REDACTED] Central High School

Appointments Held

Summer 2019,

> 40 hrs/week

Property Manager, London, UK

Managed and directed the renovation of an old apartment.

Documented faults and assessed solutions at a new property.

2016-2017

General Employee, Krause's Chocolates of [LOCATION REDACTED]

*Subjectively matched customers with chocolates, cleaned, restocked,
and hand-packaged said chocolates.*

References

Nikiforakis, Nick. **Assistant Professor**, Department of Computer Science, Stony Brook University.
nick[AT]cs[DOT]stonybrook[DOT]edu

Amin Azad, Babak. **Graduate Research Assistant**, PragSec Laboratory, Stony Brook University
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