

Miles Shamo

Expected Bachelors of Science and Masters of Science in Computer Science in 2023

Naperville, IL

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Education

University of Illinois at Chicago, Chicago, IL.

B.S. & M.S. in Computer Science

4.0 grade point average

Honors College student

Member of the A.C.M.

Aug. 2019

to

May 2023

Relevant Coursework

Data Structures (CS 251)

Software Design (CS 342)

Computer Algorithms (CS 401)

Formal Logic (MATH 430)

Differential Equations (MATH 220)

Linear Algebra (MATH 320)

Skills

Various Linux command line utilities

Wireless networking analysis

Regular expressions

GNUMake, Valgrind, and GDB

Computer maintenance and repair

Programming Languages

Exploring Haskell and Coq

Experienced with C & C++

Proficient in Bash, Python & [L^AT_EX](#)

Familiar with JavaScript, Java, AHK, & Rockstar

Experience

Telephone Studies Intern, CACI

Explored the effectiveness of honeypots as a method of collecting information with a focus on SSH attacks

Analyzed binaries, network traffic, and other attacker activities to garner insights into individual attackers and trends

May 2022

to

Aug. 2022

Telephone Studies Intern, CACI

Designed and developed a hypervisor-side anti-malware solution for guests utilizing virtual machine introspection

Worked extensively with the Linux kernel to identify and test attack vectors

May 2021

to

Aug. 2021

CS 251 (Data Structures) Teaching Assistant, University of Illinois at Chicago

Engaged with students during self-run office hours, lab sections and as an oral exam proctor

Provided iterative feedback on project design and requirements

Aug. 2020

to

May 2021

Intern, University of Illinois at Chicago MakerSpace

Independently designed and manufactured a desk-mounted microphone boom arm using MakerSpace facilities

Designed and manufactured sneeze guards for use in UIC offices

July 2020

to

Aug. 2020

Network Operations Intern, Naperville Community Unit School District 203

Led a small team to conduct a suite of wireless surveys across the district

Condensed findings into building level reports highlighting problems and providing solutions

June 2019

to

Aug. 2019

Golf Caddie, Naperville Country Club

Carries patrons clubs for duration of the golf round

Engages directly with golfers to ensure an enjoyable and timely round

Apr. 2018

to

Aug. 2020

Projects

Current Projects

Developing [HaskTTP](#), a conditionally compliant HTTP/1.1 webserver written in Haskell from the socket level

Using Iris as a component of a VST specification for verifying C programs in Coq

Prior Projects

Writing a fully automated Twitch-specific IRC bot, [BariBot](#), in C++ from the socket level

Explored elliptic curve arithmetic in Python over various fields

Creating generative art through Java applications via the Processing3 library

Additional Activities

Searching for the perfect macaroni and cheese recipe

Amateur pianist

Amateur poet looking to eventually publish