Miles Shamo

Expected Bachelors of Science in Computer Science in 2023

Naperville, IL 630-465-8997

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Education

University of Illinois at Chicago, Chicago, Il. Honors College student Aug. 2019 B.S. & M.S. in Computer Science to Member of the A.C.M. May 2023 4.0 grade point average

Relevant Coursework

Data Structures (CS 251) Formal Logic (MATH 430) Software Design (CS 342) Differential Equations (MATH 220) Computer Algorithms (CS 401) Linear Algebra (MATH 320)

Skills

Various Linux command line utilities **Programming Languages** Exploring Haskell and Coq Wireless networking analysis Experienced with C & C++ Regular expressions Proficient in Bash, Python & MEX GNUMake, Valgrind, and GDB Familiar with JavaScript, Java, AHK, & Rockstar Computer maintenance and repair

Experience

Telephone Studies Intern, CACI	May 2022
Explored the effectiveness of honeypots as a method of collecting information with a focus on SSH attacks	to
Analyzed binaries, network traffic, and other attacker activities to garner insights into individual attackers and trends	Aug. 2022
Telephone Studies Intern, CACI	May 2021
Designed and developed a hypervisor-side anti-malware solution for guests utilizing virtual machine introspection	to
Worked extensively with the Linux kernel to identify and test attack vectors	Aug. 2021
CS 251 (Data Structures) Teaching Assistant, University of Illinois at Chicago	Aug. 2020
Engaged with students during self-run office hours, lab sections and as an oral exam proctor	to
Provided iterative feedback on project design and requirements	May 2021
Intern, University of Illinois at Chicago MakerSpace	July 2020
Independently designed and manufactured a desk-mounted microphone boom arm using MakerSpace facilities	to
Designed and manufactured sneeze guards for use in UIC offices	Aug. 2020
Network Operations Intern, Naperville Community Unit School District 203	June 2019
Led a small team to conduct a suite of wireless surveys across the district	to
Condensed findings into building level reports highlighting problems and providing solutions	Aug. 2019
Golf Caddie, Naperville Country Club	Apr. 2018
Carries patrons clubs for duration of the golf round	to
Engages directly with golfers to ensure an enjoyable and timely round	Aug. 2020

Projects

Current Projects Prior Projects Developing HaskTTP, a conditionally compliant HTTP/1.1 Writing a fully automated Twitch-specific IRC bot, BariBot,

webserver written in Haskell from the socket level Using Iris as a component of a VST specification for verifying C programs in Coq

Additional Activities

Searching for the perfect macaroni and cheese recipe Amateur pianist

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

Amateur poet looking to eventually publish