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. — Aug. 2019 to May 2023

B.S. & M.S. in Computer Science
4.0 grade point average
Honors College student
Member of the A.C.M.

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 & LaTeX
Familiar with JavaScript, Java, AHK, & Rockstar

Experience

Telephone Studies Intern, CACI — May. 2022 to Aug. 2022

Explored the effectiveness of honeypots as method of collecting information on internet attacks
Analyzed binaries, network traffic, and other attacker activities to garner insights into individual attackers and trends

Telephone Studies Intern, CACI — May. 2021 to Aug. 2021

Designed and developed a hypervisor-side anti-malware for guests utilizing virtual machine introspection
Worked extensively with the Linux kernel to identify and test attack vectors

CS 251 (Data Structures) Teaching Assistant, University of Illinois at Chicago — Aug. 2020 to May 2021

Engaged with students during self-run office hours, lab sections and as an oral exam proctor
Provided iterative feedback on project design and requirements

Intern, University of Illinois at Chicago MakerSpace — July 2020 to Aug. 2020

Independently designed and manufactured a self chosen project using MakerSpace facilities
Designed and manufactured sneeze guards for use in UIC offices

Network Operations Intern, Naperville Community Unit School District 203 — June 2019 to Aug. 2019

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

Golf Caddie, Naperville Country Club — Apr. 2018 to Aug. 2020

Carries patrons clubs for duration of the golf round
Engages directly with golfers to ensure an enjoyable and timely round

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