Miles Shamo

Expected Bachelors of Science in Computer Science in 2023

Naperville, IL 630-465-8997

milesshamo@gmail.com

Education

University of Illinois at Chicago, Chicago, II.

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

4.0 grade point average

Honors College student

Member of the A.C.M.

to

May 2023

Relevant Coursework

Data Structures (CS 251)

Software Design (CS 342)

Computer Algorithms (CS 401)

Applied Statistics (STAT 381)

Differential Equations (MATH 220)

Linear Algebra (MATH 320)

Skills

Computer maintenance and repair

Wireless networking analysis

CAD software

Proficient in regular expressions

Proficient with VIM, GNUMake, Valgrind, and GDB

Proficient maintenance and repair

Experimence Languages

Exploring Haskell and Coq

Experienced with C & C++

Proficient in Python & MEX

Familiar with JavaScript, Java, AHK, & Rockstar

Experience

Telephone Studies Intern, CACI	May. 2022
Explored the effectiveness of honeypots as method of collecting information on internet 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 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 self chosen project 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	Present

Projects

Current Projects Prior Projects

Writing a fully automated Twitch-specific IRC bot, BariBot, in C++ from the socket level

Assembling and experimenting with the Open Theremin V3 Arduino Shield

Creating generative art through Java applications via the Processing3 library

Additional Activities

Searching for the perfect macaroni and cheese recipe Amateur pianist

Explored the arithmetic of elliptical curves through pythonenabled computation, personally focused on creating classes representing points and the related abelian operations over various fields

Implemented a Spotify "helper," managing volume, seek/skip, and liking/disliking songs through keyboard shortcuts via AutoHotKey

Amateur poet looking to eventually publish