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

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**

Wireless networking analysis   Exploring Haskell and Coq

Regular expressions   Experienced with C & C++

GNUMake, Valgrind, and GDB   Proficient in Bash, Python & LaTeX

Computer maintenance and repair   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**

Developing HaskTTP, a conditionally compliant HTTP/1.1 webserver written in Haskell from the socket level   Writing a fully automated Twitch-specific IRC bot, BariBot, in C++ from the socket level

Using Iris as a component of a VST specification for verifying C programs in Coq   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 poet looking to eventually publish

Amateur pianist