

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 & [Elm](#)
Familiar with JavaScript, Java, AHK, & Rockstar

Experience

Telephone Studies Intern, CACI

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

May. 2022
to
Aug. 2022

Telephone Studies Intern, CACI

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

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 self chosen project 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
Present

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