

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)

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

Programming Languages

Currently studying C & C++ and Java
Proficient in Python & \LaTeX
Familiar with JavaScript & C#
Exploring AHK and Rockstar

Experience

Telephone Studies Intern, CACI

Created vKASPER, a hypervisor-side C++ program able to detect and prevent threats within its guests via virtual machine introspection through LibVMI
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

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

Prior Projects

Explored the arithmetic of elliptical curves through python-enabled 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

Additional Activities

Searching for the perfect macaroni and cheese recipe
Amateur pianist

Amateur poet looking to eventually publish