Sam Hanson

sam.t.hanson22@gmail.com

Education

University of Minnesota - Twin Cities

Anticipated May 2020

Bachelors of Arts in Computer Science, Leadership minor

Work Experience

Code42 Jan-Aug 2019

Software Engineer Intern

- Developed file monitoring app for 3rd-party applications (GDrive, OneDrive, Box, etc.) that security experts can use to monitor for suspicious activity
- Found exceptions in our application and wrote secure fixes
- Wrote unit tests to ensure correctness
- C#, SQL, Microsoft Azure, Git

Undergraduate Research Fellow - U of MN

2017 - 2019

Web Developer & Research Programmer

- Develop web-based data visualization tools for high volume of environmental data
- Researched and implemented machine learning algorithms to classify various land features
- Google Cloud Platform, OpenLayers, PostGIS, Geoserver, Javascript, HTML, CSS, PHP, MATLAB, Python

Blueprint Solutions LLC May-Sept 2018

Software Implementation and Data Transfer Expert

- Perform technical operations for specific client requests
- Troubleshoot with hearing health care providers to identify and fix any errors or bugs in their system.
- Transfer data across competitive systems to Blueprint OMS

Activities

University of Minnesota Comedy Club, member University of Minnesota Run Club, member

2018 - Present

2016 - Present

Skills

Multiple Programming Languages

Python, Java, C, C#, C++, PHP, SQL, HTML, CSS, Javascript, MATLAB, OCaml

French Language

Intermediate level

Awards and Achievements

Conducting Cybersecurity Research

2019 - Present

- Researching vulnerabilities and exploits in JavaScript Engines (WebKit, V8, Chakra, etc.) using advanced fuzzing techniques
- Currently taking CSCI5271: Introduction to Computer Security and INET4007: Cloud Security
- Next semester, taking CSCI5980: Manual and Automated Binary Reverse Engineering

Won the 2018 Software Design Competition

October 2018

- Created a mobile and web application to increase citizen engagement in civic duty
- Various technologies used including Google Cloud Platform, the Vue.js framework, Javascript, HTML, Sass, Python, PSQL

Participated in the 2019 Minnehack (24hr competition)

Spring 2019

- Developed online marketplace for farmers to streamline the buying and selling of crops
- One of over 50 teams