Andrew Schoonmaker

Andrew.schoo@outlook.com   18636 Wildlife Way BR, LA

Education and Portfolio

Louisiana Tech University, Ruston, LA (2017-2021)

Major: Cyber Engineering   GPA: 3.86   schoobydrew.github.io

Coursework: Computer Network Security, Engineering Problem Solving, Science of Computing, Data Structures, Circuits, Microprocessors, Systems Programming, Operating Systems, Discrete Math, Public Speaking, Speech and Debate

Technical Skills

Software: Python, Java, C, C++, Kali Linux, Nessus, Nmap, FreePbx, Protégé, Spice Netlists, Verilog, VHDL, OpenCV

Service: Penetration testing, Security Policy, Social Engineering: Phishing and Vishing, Software Development

Certifications: Security+ CompTIA   Clearance: Active DoD Secret Security Clearance

Projects and Experience

Secure Software Research Engineering Intern, Radiance Technologies (March 2019 – Present)

- Implemented DEVS model for a system of systems simulation for large amounts of data
- Leveraged description logic and ontologies to develop a machine learning reasoner to infer complex relationships
- Researched novel ways to develop cutting edge technology with machine learning algorithms and TPKB's and Markov logic
- Applied computer vision and machine learning techniques to process arbitrary pictures of researched specimen

Associate Security Analyst, Trace Security (May 2017 – August 2018)

- Ran External Penetration tests against financial institutions and medium sized businesses
- Spoofed phone calls to perform remote social engineering attacks against companies
- Phished company wide email systems
- Reviewed financial institution technology and security policy for best industry practices
- Trained new full time employees on various tasks like social engineering
- Scanned internal and external networks for Vulnerability Assessments

AICS Development Team (Spring 2018)

- Developed real world scenarios related to national security and cyber topics
- Created and tested detail-oriented puzzles presented incrementally over the course of a week

Robotics Team (2016-2017)

- Built a robot to compete in the FIRST Robotics Competitions
- Worked on the Electrical Team to wire the robot's circuits
- Manufactured sheet metal and wooden parts for the robot to use in game

Cyber Discovery 1.0 and 2.0 (2014-2015)

- Competed in a cyber security camp put on by NICERC, the Department of Homeland Security, and LA Tech
- Presented solutions to national security for AICS (Analysis and Investigation through Cyber-based Scenarios)

Recreational Programming

- USB Baiting – created a program that masquerade on a USB drive to test users and remotely log to a server
- NASA API – developed a web interface to make request data from the NASA image archive API
- Productivity – made a Nmap parser to CSV files
- BiteWise – app that leverages machine learning to generate a weekly meal prep budget from a platter of food

Community Awards and Involvement

Eagle Scout of Boy Scout Troop 888 (August 2016), Man of the Year – Catholic High School (Class of 2017), National Merit Finalist and Scholar (2017), Annie Low Stiles Scholarship (2018), Secretary of Association of Cyber Engineers (2018), Stella Roman Foundation Bell Grant (2018),Vice-President of Association of Cyber Engineers (2019), 1st Place Winning team for Capital One SES Hackathon