Noah Shaw

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EDUCATION

University of South Carolina; Columbia, SC
Bachelor of Science in Computer Science, Bachelor of Science in Mathematics: December 2021
GPA: 4.00; President's/Dean's Honor List: 5 semesters; National Society of Collegiate Scholars; Tau Beta Pi Honors College, Palmetto Fellow, Dean's Scholar, Presidential Scholar, Joseph M. Biedenbach Scholar

SKILLS

Computer

- Languages: Java (Advanced), C++ (Advanced), Python (Intermediate), Bash (Intermediate), Elixir (Intermediate), Prolog (Intermediate), Markdown (Intermediate), Haskell (Beginner), JavaScript (Beginner)
- Operating Systems: Windows (Advanced), Ubuntu (Advanced), macOS (Beginner)
- Applications: Visual Studio Code, Eclipse, Vim, Docker, VirtualBox, Wireshark, PuTTY
- Able to construct computers and have knowledge of hardware capabilities and bottlenecks

Certifications

- Gold ACT National Career Readiness Certificate
- National Training Standard for Information Systems Security Professionals Certification

RELEVANT COURSEWORK

CSCE 522: Information Security Principles, Fall 2019
- Studied the basic principles of information security including cryptography, identification and authentication, access control models, multilevel database security, and methods to plan and administer information security
- Gained an understanding of the various threats to information security with countermeasures

CSCE 416: Introduction to Computer Networks, Fall 2019
- Introduced several models of computer networks and their various protocols like TCP/UDP

CSCE 247: Software Engineering, Summer 2019
- Introduced the fundamentals of software design including planning, implementation, testing, and source control
- Continued advanced studies on object-oriented design techniques

CSCE 240: Advanced Programming Techniques, Summer 2019
- Rigorously developed programs using C++ in a Unix programming environment
- Studied advanced programming structures and developed new techniques

CSCE 215: UNIX/Linux Fundamentals, Spring 2019
- Introduced a Linux OS, the command line, programming tools, and scripting languages

CSCE 145/146: Algorithmic Design I/II, Fall 2018/Spring 2019
- Rigorously developed algorithms and computer programs in Java to solve problems
- Designed complex data structures and used them to develop programs

EXTRACURRICULAR ACTIVITIES

Cyber Security Club

- Introduced the concepts of computer, network, and physical security
- Participated in penetration testing, cyber defense, and capture the flag contests

Association of Computing Machinery (ACM)

- Weekly talks about various topics related to computing to expand student's knowledge
- Participated in code-a-thons each semester to improve programming skills

WORK EXPERIENCE

Raytheon Technologies, Dulles, VA
Cyber Engineering Intern, May 2020 – August 2020

- Refactored a Boofuzz SNMP fuzzer utility to support user input and future network protocols
- Integrated Anchore into a Bitbucket pipeline for Pipeline-in-a-Box, a cloud-based tool that automates software delivery
- Developed a GitLab CI pipeline utilizing Docker for the OS hardening tool STIGLER
- Programmed an LDAP3 ITAR status query tool to automate registration for cyber workshops
- Attended a Loudon County Youth Leadership session to answer questions about Raytheon internships
- Completed introductory courses in Kali Linux, Metasploitable 2, and WiFi security and hacking

NineFX, Columbia, SC
Software Developer Intern, August 2019 – April 2020

- Developed software and cybersecurity solutions that focused on the Federal market
- Developed a Raxx application to wrap SonarQube, a scanner for static code analysis, in a RESTful interface for a U.S. Navy Web App Scanning Microservices Architecture contract
- Continued practicing different software engineering design principles and patterns, especially source control, unit testing, and the sidecar design pattern
- Experienced many technologies such as distributed systems (actor model), containers (Docker), and XMPP
- Used functional programming languages such as Elixir to efficiently develop secure software

Carolina Institute of Technology, Columbia, SC
Programmer/Web Developer, May 2019 – August 2019 (Federal Work Study)

- Developed software programs for hospital systems to increase their efficiency, network security, and compliance with HIPAA
- Learned and practiced different software engineering design principles and patterns such as testing and source control
- Worked on individual aspects of large projects and collaborated with others to correctly design complex programs
- Used multiple programming and scripting languages, such as Java, SQL, and PHP, to develop software, a web server, and a website