Jack Shirley

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EDUCATION

Texas A&M University
Master of Computer Science, Aug 2021
GPA: 3.8

B.S. in Computer Science, May 2020
Minor in Cybersecurity
GPA: 3.3

RELEVANT COURSES

Computer and Network Security
Computer Architecture
Cryptography
Cloud Computing
Database Systems
Data Structures and Algorithms

SKILLS

CERTIFICATIONS
CompTIA Security+

MOST EXPERIENCE
Java, Python, C/C++,
Linux/Unix, HTML/CSS

EXPOSURE TO
Javascript, Assembly,
C#, Haskell

TOOLS & FRAMEWORKS
Git, React Native, Node.js
Visual Studio, .NET, SQL Server
Laravel, Rails, AWS, Azure

HONORS / AWARDS

Scholarship for Service Recipient
General O.R. Simpson Honor Society
Dean's Honor Roll
Eagle Scout
Corps Scholarship Award

CONNECT

LinkedIn: /jack-shirley
Github: /jack-shirley

INTERESTS

Aviation - Private Pilot SEL
Aerospace and Orbital Flight
Computer/Network Security
Personal Coding Projects
Web Development

EXPERIENCE

Texas A&M, Department of Information Technology | Student Software Developer
College Station, TX | January 2019 – August 2020
o Working with the Corps of Cadets to develop and improve stability of the Corps CMS (Cadet Management System) Database Application, developed with Microsoft .NET Framework
o Began work on new CMS application developed in Laravel for future deployment

Lockheed Martin Aeronautics | Cybersecurity Engineering Intern
Ft. Worth, TX | Summer 2018/2019
o Worked under the Cyber Security Engineering Organization for LM Aeronautics
o Supports programs including the F-35, F-16, and F-22 fighter jets

NSA/USAFA Cybersecurity Competition | TAMU Cadet Participant
Colorado Springs, CO | April 2019
o Event sponsored by the NSA for the Service Academies and SMCs (Senior Military Colleges)
o Participated with 5 other cadets to represent Texas A&M, finishing in 2nd place in the bracket among the NSA and SMC teams

Texas A&M Cybersecurity Center | UAV Penetration Tester
College Station, TX | January 2018 – May 2018
o UAV project funded by the DoD as well as Georgia Tech Research Institute
o Collaborated with a team of cadets to find vulnerabilities in unmanned drones

PROJECTS

PoliTwitter | Solr ♦ HTML/CSS ♦ PHP
o Worked with a team to create a fully functional online web application that determined the political leaning stance of Twitter given a search query
o Specifically worked on the frontend of the application

Weather Bot | Python ♦ Raspberry Pi ♦ Linux
o Created a script that makes use of OpenWeather API to fetch weather in hometown and send custom emails to recipients for a weather report
o Made use of cronjobs to send email everyday

Two-Pass Hash Join | Java ♦ Python
o Developed a program to execute a two-pass algorithm that simulates reading and writing to a virtual disk, then joins data in main memory based on the hashed values from the disk
o Implemented with Java, created data with Python

Ampduino | Arduino Uno ♦ Hardware
o Worked with a team to create a guitar effects box using two Arduino Unos
o Made use of PWM (Pulse Wave Modulator) and ADC/DAC (Analog/Digital Converters)

INVOLVEMENT

Corps Cyber Operations Unit | Executive Officer (2018-2019)
College Station, TX
o Training with a team of cadets to acquire certifications
o Competing in cyber security events and CTF's across the nation

Texas A&M Cybersecurity Club | Member
College Station, TX
o Learning valuable cyber security skills to further the careers of the members
o Insight into cyber space in the workforce with companies coming to speak to the organization