ANYA OWSENEK

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Website: aowsenek.github.io · GitHub: https://github.com/aowsenek

A capable programmer whose main strength is on-the-job technical flexibility and adaptivity

EDUCATION

University of Colorado Boulder College of Engineering: Computer Science (GPA: 3.2) **Sept 2016 - Dec 2019**
Minor: Nordic Studies

TECHNICAL EXPERIENCE

Languages:
Python · PyQt
LaTeX · PowerShell
C · C++ · C#
Java · Javascript · HTML
VBA · BASH · SQL

Technical:
Automation over serial streams
Linux Administration (Fedora, CentOS, Ubuntu)
Test-driven development
Trained in Object Oriented concepts and Functional programming
Basic networking experience

Soft:
Technical writing and documentation
Frequent public speaking
Effective communication
Flexible and fast learner

PROFESSIONAL

Computer Science Senior Thesis: Vehicular Log Verification with Blockchain **January 2019-Present**
- Designed and developed software for vehicular log verification.
- The software used blockchain technology to secure data and ensure data authenticity.
- Worked in collaboration with the Neutral Vehicle group to add the software to an international vehicular log standard.

Flexential Professional Services Engineering Intern **June 2019-August 2019**
- Wrote PowerShell script to pull vCenter VM usage details for Cloud Readiness Assessments.
- Developed software to take ScoutSuite AWS Vulnerability data and generate a Cloud Security Audit report.
- Configured and networked ESXi hosts for internal development and lab use.
- Miscellaneous jobs helping with Security and Compliance, Security Audits, and Penetration Testing including social engineering and OSINT

Varanus Ltd. Founder **April 2018-January 2019**
- Varanus Ltd. was a security start-up focused on providing advanced intruder detection in a convenient monitoring suite.
- Specialized in detecting database compromise and log file tampering using honeytokens and LogChain Blockchain technology.

HP Inc. Workstations R&D Linux Team Intern **May 2018-August 2018**
- Investigated automation frameworks for Linux benchmark testing.
- Wrote several Linux-compatible benchmarks for the Software Tools team's Auto Framework.

SpectraDynamics Inc. (SDI) Intern **May 2017-May 2018**
- Developed software to analyze spectroscopy graphs and automate laser frequency tuning for a precision electronics laser system used in a rubidium atomic clock, over a serial stream using Python.
- Migrated this software to a Raspberry Pi and developed an extensible user interface (GUI) using PyQt4 for controlling multiple serial devices inside of the atomic clock.
- Developed an automation script for a Pick and Place machine, using VBA to convert .xls file to specialized formatted CSV files.

Cooperative Institute for Research in Environmental Sciences (CIRES) **August 2016-May 2017**
IT Student Support Specialist
- Computer support for externally-funded on-campus research department.
- Assisted with set-up, integration, and maintenance of servers, and utilized problem-solving skills for debugging of project programs and troubleshooting computer and user issues.

Battlespace Simulations, Inc. **2014, 2015**
- Summer internship providing programming services to a contractor to the US Department of Defense and the UK Ministry of Defence.
- Programmed radar simulations and a graphical user interface (GUI) editor for creating simulated objects in the development of simulation software used for training warfighters on the use of equipment in C#.

HACKATHON AWARDS

- HackCU V 1st Place Smart Contract Hack: CAN Theft Auto: Blockchain
  Code: github.com/aowsenek/NV_BlockChain
- MD5 Hackathon 1st Place: Varanus Security Monitoring Suite & Advanced Intruder Detection
  Code: github.com/ComputerBear/varanus
- Facebook ITP Hackathon 1st Place: Network Failure Interfaces Challenge
  Code: github.com/aowsenek/FBHackathon18
- Cisco ITP Hackathon 2nd Place Hack: Malicious User Pinpointing
  Code: github.com/lalaithion/IceGeckos

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- HackCU IV 4th Place Hack: Pothole Vigilante

Code: github.com/aowsenek/HackCU4

AWARDS AND ACHIEVEMENTS

- Chancellor's Achievement Scholarship
- Engineering BOLD Participation Scholarship
- Ole Virginia Ham Radio Scholarship
- Inducted into 4-H All Stars
- TJ Prince William County Chess Team Awards -2nd Individual, 2nd & 3rd Team
- President's Volunteer Service Award

PROJECTS OF NOTE

Strategic War Simulator
Robotics class final project to create a chess-playing Sawyer robotic arm.
Code: github.com/sloughlin/STRATEGIC_WAR_SIMULATOR

DiplomacyBot
Led a small team in building a Slack chat room bot that managed a Diplomacy game.
Code: github.com/aowsenek/diplomacyBot

Annapolis Light Parade **2014, 2015, 2016**
Built and programmed an arduino-driven dynamic light parade display for 65-foot tall holiday display on a sailboat for the Annapolis Boat Light Parade.

Thomas Jefferson High School for Science and Technology Microelectronics Laboratory Senior Research **2016**
Conducted research on developing a Digital Time Capsule (DTC) using a Raspberry Pi that was completely self-contained with 7-15 year power. This DTC was able to store and retrieve large amounts of data, connect wirelessly, remain dormant for years at a time, after which time it self-activated and started broadcasting to the world.

EXTRACURRICULAR & VOLUNTEER ACTIVITIES

Hackathons: Award winner in the MD5, Facebook, HackCU 3,4,and 5, T9Hacks, and Cisco Hackathons. Participant in HackTJ
CU Nordic Club: President 2018-2019
4-H: State Reserve Champion Senior 4-H Portfolio, Senior Leader Volunteer, Camp Counselor