Manju Kuah

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ORTSOC Infrastructure

Senior capstone project to design infrastructure for the Oregon Research & Teaching Security Operations Center (ORTSOC), a student-staffed Security Operations Center (SOC) designed to vocationally teach students how a SOC works and how to be a security analyst. Provides security operations for small organizations that may not be able to afford the services of a well-known or established SOC. This infrastructure exclusively uses zero-cost software (Zeek, Elasticstash, Ansible) to keep the operating costs of the ORTSOC at a minimum for the clients.

SKILLS

Programming

- 4 years C, C++
- 4 years Python,
- 4 years x86 Assembly
- 4 years HTML/CSS/JavaScript
- *sh, PowerShell
- Git
- Linux/Windows/Mac/Android
- YAML

Security

- Malware Analysis
 - IDA Pro/Hex-rays Decompiler, gdb
- Binary Exploitation
 - pwntools
- Network Security
 - o Zeek, Wireshark
- Log Management
 - o Elasticsearch, Logstash
- Automation
 - Ansible

EDUCATION

Oregon State University

Degree: Bachelor of Science, Major: Computer Science, Cybersecurity

Key Computer Science courses:

Estimated Graduation Date: June, 2022

Network Security

- In-depth research on Buffer Overflow Attacks, Public key infrastructure, IPSec
- Built a two-factor authentication application. Generates a Time-Based One Time Password (TOTP) as a QR code that is readable by Google Authenticator.

Operating Systems I,II

Built JOS, an educational OS based on linux architecture. Professionally debug using GDB.

Analysis of Algorithms

o In-depth analysis of algorithms, programmed various algorithms with efficient runtimes. (Python)

Architecture and Assembly Language

Programmed a rhythm clicking game entirely in x86 assembly language.

Cryptography

o pseudorandom generators, block ciphers, hash functions, etc.

Computer Networks

Network principles, concepts, in-depth internet protocols.

Corvallis, OR