Manju Kuah

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SUMMARY

4th year computer science major pursuing an Undergraduate Certificate in Cybersecurity from OSU. I am looking for work to gain experience with different fields within Cybersecurity such as Malware Analysis, Pen Testing and Network Defence.

PROJECTS

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/XML/JSON

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

EDUCATION

Oregon State University   **Estimated Graduation Date: June, 2022**

Degree: Bachelor of Science, Major: Computer Science,Cybersecurity   *Corvallis, OR*

Key Computer Science courses:
- **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**
  - 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**
  - pseudorandom generators, block ciphers, hash functions, etc.
- **Computer Networks**
  - Network principles, concepts, in-depth internet protocols.