MATT WATKINS

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EDUCATION

Western Washington University   Bellingham, WA
BS Computer Science   Graduated: March 2018

Sample Coursework: Unix Development, Network Programming, Algorithms, Database Systems, Device Drivers, Object Oriented Design, Mobile Development, Computer Security & Forensics, Whiteboard Coders Club, Collegiate Cyber Defence Competition, Cybersecurity Club

EXPERIENCE

PacketSled | *Security Software Engineer Intern*   December 2017 — August 2018
- Developed network protocol analyzers for Bro, the network monitoring framework, from older commonly exploited protocols, like Telnet, to newly developed IoT protocols, like MQTT.
- Researched and created detections for various forms of malicious network activity across multiple network protocols.
- Implemented new detection technologies and strategies such as lexical analysis of SQL injections and statistical correlation methods.

Collegiate Cyber Defence Competition | *Senior Member*   Dec 2014 — March 2018
- Defended a mock business network comprised of various users, servers, and internet services against a large distributed team of penetration testing professionals from the InfoSec industry.
- Monitored, managed, and secured various web apps, operating systems, and services against vulnerabilities while maintaining uptime throughout the competition.

SPIE | *SysAdmin Internship*   March 2016 — Oct 2016
- Administrated over 200 employees and 400 devices with a small effective technical team.
- Responsible for maintaining company property integrity by removing various forms of malware and viruses from multiple different OS's and devices.

SKILLS

- Proficient in C and Java. Conversant in C++, PHP, MySQL, Bash, ASM. Working knowledge of Javascript, Python, and MVC design concepts.
- Broad knowledge of computer security, networking, mobile security, embedded devices, and testing and debugging.
- Comfortable with a wide range of IDEs, SDLC methodologies, version control systems, and virtualized systems (AWS/VPSs).
- Extensive experience working and collaborating effectively in teams of various sizes, objectives, and environments.

PROJECTS

Meta | *Mobile Development*
- Lead group project on development of an Android application that innovatively blocks advertisements, location tracking, and personal data collection.

Osc.c | *Device Driver*
- Developed a device driver on NetBSD and Windows 10 for a function generation device that acts as an oscilliscope and displays waves in terminal.

Secure Payment Processing | *Senior Project*
- Built a system that securely processes credit card information from remote point of sale Raspberry Pi to AWS database, storing minimal sensitive information as to emulate PCI compliance.

Piggy.c | *Network Programming*
- Created a program that connects with multiple other instances of itself to build a bidirectional "daisy chain," where data can be sent and received in either direction over the network.

Minishell.c | *Unix Development*
- Developed a Bash like shell for parsing Linux commands with capabilities of doing wildcard completion, input/output redirection, command piping, and command expansion.