Mason Schleu

Software Engineer

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SUMMARY

Agile Cyber Software Engineer with 3+ years of professional experience developing Python and C++ test code. I currently work on a fast-paced team at Lockheed Martin where my job is to test customer requirements and find and fix bugs for the cyber network device my team is tasked with designing. My three main focuses are automation, testing, and cyber security. I am a curious engineer and love to learn, challenge myself, and use what I know to collaborate with others and help people.

TECHNICAL SKILLS

Programming Languages: Python, C/C++/C#, Bash, Make, HTML/CSS, Java, Assembly, Verilog, VHDL
Development: Object oriented programming, debugging, sockets, data structures, performance, unit testing
Programs/Tools: Jenkins, Atlassian suite, AWS, Microsoft Office suite, Microsoft Visual Studio
Operating Systems: Ubuntu, Red Hat, Windows, macOS, YOCTO, LXC, VMs, kernel modules, Systemd, bootloaders

PROFESSIONAL EXPERIENCE

***Cyber Software Engineer*, Lockheed Martin – Cyber Network Interface Device (CNID)**   **Active Top Secret**
December 2018 – present // Louisville, CO
> Developed Python framework to automate the testing of thousands of CNID requirements.
> Designed automated cross-platform build and deploy system that streamlined team's development workflow.
> Setup CI infrastructure, providing CNID sufficient time to test and ensuring on schedule delivery to customers.
> Analyzed nightly report data to detect and understand anomalies in the CNID using data to drive development and fixes.
> Review code written by other engineers ensuring only high-quality software is allowed into code base.

***Embedded Software Engineer*, Lockheed Martin – Software Defined Satellites (SDS)**
May 2018 – December 2018 // Louisville, CO
> Developed the backend for the configuration service which handled requests from json, yaml, and ZooKeeper.
> Wrote high quality documentation using Sphinx and Doxygen for all SDS services used by developers and users.
> Used YOCTO to configure, build, and deploy custom Linux kernel images to target platforms.
> Laid foundation for app manager utilizing LXC to create containers on custom embedded Linux distributions.

***Undergraduate Research Assistant*, University of Nebraska, Omaha**
Fall 2016 – Spring 2018 // Omaha, NE
> Collaborated with medical doctors and human research subjects to develop user-friendly biomechanical devices.
> Coded mobile smartphone apps in Java and C# to quantify mobile sensor data from human motion.
> Presented research at conferences to small audiences with wide range of backgrounds.

***Software Developer Intern*, National Strategic Research Institute**
Spring 2017 – Spring 2018 // Omaha, NE
> Developed AR applications for the Microsoft HoloLens in Unity using C# to enable gesture and voice control of planes.
> Communicated information to non-technical stakeholders via video tutorials and documentation.

PROJECTS

> Self-taught web development and HTML/CSS and deployment using AWS to showcase my portfolio (link).
> Team designed Android app and embedded system to track foot temperature using Bluetooth sensors.
> Designed an 8051 based system which included RAM, ROM, LCD, keypad and various sensors. Firmware written in C.

EDUCATION

***B.S. Computer Engineering*, University of Nebraska, Lincoln**
2014 - 2018 // Omaha, NE - Peter Kiewit Institute
> President of the University of Nebraska Omaha Maker Group   2018
> Fund for Undergraduate Scholarly Experiences (FUSE) grant recipient   2017