>JACOB ROBIE

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SUMMARY

Secret cleared Senior at George Mason University and Co-op in Mission Focused Tools of the Cyber Innovations Unit at Battelle Memorial Institute.

SKILLS

Programming Languages & Tools Experience

· Python, Java, C/C++, Android, C#, CUDA

· PostgreSQL, SQLite, RabbitMQ, Celery, Airflow, Scrapy, Git

Reverse Engineering

· Disassembly and reverse engineering of Android applications

· Understanding of Android internals and Security Model

· Principal understanding of GSM networks, experience with software based GSM base stations

· Experience with network sniffing using Wireshark

· Some experience with x86, ARM, and MIPS assembly language, IDA Pro

Other Areas of Interest

· Capture The Flag Competitions – Mason Competitive Cyber

· Software Defined Radio – experience with both Ettus and DRT devices

· Robotics – GMU Robotics Club

EXPERIENCE

August 2016 - Present

Co-op - Mission Focused Tools, *Battelle Memorial Institute*

· Designed, implemented, and maintain a system for programmatically collecting cataloguing, and emulating SOHO device firmware

· Bug fixes and feature development on an automated PSP testing framework

· Symbolic & Concolic Execution research using Angr and Z3

March 2014 - August 2015

Cyber Systems Specialist, *Métier Defense Solutions*

· Responsibilities included Android development and reverse engineering, SDR configuration and prototyping, and assisting in development of RFP responses

2011 & 2012

Computer Security Intern, *National Institute of Standards and Technology*

· Partnered with George Mason's Computer Science Department to create static analysis tools for identifying malicious Windows Phone applications

EDUCATION

2015-Present

George Mason University

· Pursuing Bachelor of Computer Science in Volgenau School of Engineering.

· Expected Graduation: Fall 2017

2012-2015

Northern Virginia Community College