DYLAN McGUIRE

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RELEVANT SKILLS

- Familiarity with C, Java, and Python
- Knowledge of Go, Ruby, HTML/CSS, and x86/x86-64 assembly
- Git and the principles of version control
- Knowledge of the use and underlying architecture of both Windows and *nix systems
- Experience debugging in x86 assembly with WinDbg and gdb
- Experience disassembling with IDA Pro
- Circuit design and embedded programming (ATmega328p, MSP430F5529, and others)
- Knowledge of the fundamental vulnerability classes, experience recognizing them in both source and disassembly
- Conversational Spanish
- Professional Chinese
- Good team and leadership skills
- Strong work ethic and moral compass
- Dedicated and passionate learner who can absorb information quickly and analyze it deeply

EDUCATION

University of Pittsburgh
Bachelor's in Computer Engineering, 2014-2018 (projected)
GPA: 3.0

Focus on information security; also pursuing minors in Chinese and mathematics.

International Academy
International Baccalaureate, 2010-2014
GPA (Unweighted/Weighted): 3.9/4.2

WORK AND RESEARCH EXPERIENCE

Research Assistant, RFID Center of Excellence
Pittsburgh, PA- September 2015 to present

Responsible for simulating, implementing, and investigating the properties of a high-frequency self-clocking signal receiver.

Vulnerability Research Intern, Exodus Intelligence
Austin, TX - June 2015 to August 2015

Aided the VR team in the discovery and analysis of dangerous security bugs in high-profile software.

LEADERSHIP EXPERIENCE

Founder and Captain, PittCTF
Pittsburgh, PA- August 2015 to present

Introducing Pitt developers to fundamental security concepts in a competitive, team-based environment.

PROJECTS

Persistent CTF server
October 2015, ongoing

Used to train new members of PittCTF in fundamental security concepts. Also maintaining the team website, with some social networking capabilities.

Distributed fuzzing network
July 2015

Lightweight and capable of finding multiple exploitable vulnerabilities in popular consumer software; consisted of a client which ran in a virtual machine and reported the results back to a central server for analysis.

Motion-tracking glove and remotely controlled robotic hand
July 2015

Used several flex sensors to record the user's movements, which were then transmitted serially to the hand and used to coordinate its movements.

REFERENCES

Available upon request