Sean M. Richardson

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Education:
- University of California Riverside – 4th year, Expected Graduation Fall 2019
  - B.S. of Computer Science, GPA: 3.15
- Ramona High School – Graduated June 2014, GPA: 4.1

Experience:
- UCR Dean's Office, Student Intern (June 2018 - August 2018)
  - Focused on securing IoT devices and public access kiosks
  - Designed custom system administration scripts
  - Configured group policies for office work stations
  - Assisted in installing campus computing center

Projects:
- FPL_Interpreter – https://github.com/vastopol/FPL_Interpreter
  A recursive descent interpreter for a high level functional programming language I designed and built using C++.

- Jmips –https://github.com/srich009/Jmips
  A Mini Java compiler which outputs 32-bit MIPS assembly code. Written in Java using JTB and JavaCC

- Disco – https://github.com/vastopol/disco
  A custom disassembly and binary patching framework for the LC-3 computer architecture and assembly language

- Inspector_Gadget – https://github.com/vastopol/Inspector_Gadget
  A return-oriented programming security exploit finder. This can disassemble a binary and look for ROP gadgets in the application.

Professional Skills:
- Programming Languages: C++, Python, Java, C, BASH Shell
- Compiler and programming language design and implementation
- Experience with binary analysis, disassembly, and reverse engineering
- Knowledge of computer security and endpoint IoT security concepts

Activities:
- ACM – The Association for Computing Machinery member
- Cyber@UCR – Cybersecurity Club member, CTF team, CPTC team
- Guardian Scholars Program for Foster Youth – Member and Scholarship Recipient