

## Sean M. Richardson

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### Objective:

- Highly-motivated college student with excellent communication skills, seeking employment.

### 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, s 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: Github: [vastopol](https://github.com/vastopol) | [srich009](https://github.com/srich009)

- FPL\_Interpreter – [https://github.com/vastopol/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++.

- Inspector\_Gadget – [https://github.com/vastopol/Inspector\\_Gadget](https://github.com/vastopol/Inspector_Gadget)

A return-oriented programming security exploit finder. This can disassemble an executable binary and look for ROP gadgets in an application.

- EDU\_Crawler – [https://github.com/srich009/EDU\\_Crawler](https://github.com/srich009/EDU_Crawler)

A custom search engine and web crawler for .edu pages, implements a page ranking method. Data is crawled, indexed, and served to a webpage. Backend written in Java

- Soxbox – <https://github.com/vastopol/soxbox>

An interactive musical synthesizer command line tool. Written in python using the sox audio exchange package.

### Professional Skills:

- Programming Languages: C++, Python, Java, C, BASH Shell
- Knowledge of computer security and endpoint IoT security concepts
- Experience with binary analysis, disassembly, and reverse engineering
- Familiar with AVR/Atmega microcontrollers & Atmel Studio

### Activities:

- ACM – The Association for Computing Machinery member
- Cyber@UCR – UCR Cybersecurity Club member
- Guardian Scholars Program for Foster Youth – Member and Scholarship Recipient