James Poirier

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github.com/jpoirier1

jpoirier1.github.io

Personal Info

Address

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Software Skills

Languages:

Python	Java
C	C#
HTML5	CSS3
Javascript	MATLAB

Computer:

TensorFlow	AWS
Linux	LaTeX

Microsoft Azure
Version Control with Git
Issue Tracking with Jira
Bash Scripting
Penetration Testing

Hardware Skills

CAD/PCB Design
- EAGLE, KiCad

Hardware Prototyping
Debug and Test
VHDL, Verilog
ARM Assembly
Soldering

Awards and Certifications

- BSA Eagle Scout - 2013
- AWS Technical Professional
- AWS Cloud Practitioner Essentials Certification

Education

California Polytechnic State University, San Luis Obispo — Expected June 2020

Bachelor of Science, Electrical Engineering
Minor: Computer Science

Experience

Lead Software Developer and Penetration Tester — Feb 2019 - Present

Cal Poly Informational Technical Services (ITS)

- California Cyber Innovation Challenge Digital Designer and Co-Creator
- Director of Digital Forensics for CCIC 2019 and 2020
- Deployed challenge on AWS EC2 Instances to create a remote-access worldwide CTF
- Performed forensic analysis on test computer equipment for CCIC 2019, 2020

Operations Specialist — June 2019 - Sept 2019

California Cybersecurity Institute

- CCI Software Team Lead on GEN sponsored and Dragos partnered project MINERVA
  - ◊ Managing teams at Cal Poly and CCI in collaboration with teams at Dragos and UoP
  - ◊ Collaboratively working to create a first-of-its-kind investigative analytics platform to locate potential victms of human trafficking through the deep and dark web
  - ◊ Able to identify 100,000 victms per year using government furnished resources
- DEFCON 2019 Bio-Hacking Village CTF Co-Designer and Tester
  - ◊ Assisted in creation of a CTF to challenge current security protocols in medical devices
  - ◊ Built interactive website with C, Python, and HTML5 to test intercepted packets
  - ◊ Presented on the vulnerabilities of current medical devices

Coding Teacher and Mentor — June 2018 - Sept 2018

Outpour Movement, Mae Sot Thailand

- Taught introductory level coding classes in Python, HTML5, and CSS
- Overcame language barriers and cultural differences to eductate students
- Created computer programming class materials and projects, used by over 200 students

Research Projects

Alzheimer's Detection using Neural Networks — Sept 2019 - Present

Cal Poly Electrical Engineering Senior Project

- Working with TensorFlow to create a Convolutional Neural Network
- Processing MRI Scans with CV application to identify and create Alzheimer's risk profile

PROVE Solar Car Development Team — Feb 2019 - April 2019

Software Team Member

- Developed Arduino based control feedback system for hydraulic flap controls
- Integrated motor controllers and redesigned solar array power supply

3D Space Motion Tracking Robot — Sept 2018 - Dec 2018

AI Research Project with Dr. Paul Hummel

- Developed and implemented algorithms for tracking and positioning
- Created a sonar and vizualization system using a Jetson Nano and MSP432 processor

Leadership and Volunteering

UC Merced Upward Bound Program Coordinator — Sept 2019

Cal Poly Representative and Presenter

- Presented to 80 students from low-income families on STEM job path possibilities
- Created labs to showcase issues with unsecure websites and passwords, ways to control your recorded information, and how to perform basic forensic analysis on digital devices

Cal Poly San Luis Obispo — Dec 2017 - Sept 2017

WOW Leader

- Responsible for planning a week of orientation for 15 incoming engineering freshman
- Served as a leader, mentor, and friend while providing encouragement through the difficult transition period of becoming a college engineering student