

James Poirier



James Poirier



github.com/jpoirier1



jpoirier1.github.io

PERSONAL INFO

Address

12328 Fronsac Street
San Diego, CA 92131

Phone

(858) 449 - 6595

Email

jamespoirier123@gmail.com
jpoirier@calpoly.edu

SOFTWARE SKILLS

Languages:

Python	Java
C	C#
HTML5	CSS
Javascript	MATLAB

Computer:

Tensor Flow	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

Software Developer and Penetration Tester

Feb 2019 - Present

Cal Poly Informational Technical Services (ITS)

- California Cyber Innovation Challenge Digital Designer and 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

Operations Specialist

June 2019 - Sept 2019

California Cybersecurity Institute

- CCI Software 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 victims of human trafficking through the dark web
 - ~ Able to identify 100,000 victims 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 educate students
- Created computer programming class materials and projects, used by over 200 students

RESEARCH PROJECTS

Alzheimer's Detection using a Neural Network

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 Alzheimer's risk profile

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 visualization system using a Jetson Nano and MSP432 processor

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

LEADERSHIP AND VOLUNTEERING

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
- Idk what else to put here but something good