

Tristan Saldanha

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Work Experience

Research Assistant | Lewis & Clark College

May 2019 - August 2019

- > Developed a new Blockchain-based scoring system written in Python for cybersecurity wargames, to be used in cybersecurity curriculum at Lewis & Clark College
- > Published research in the Journal of Academic Computing in Colleges, Vol. 35, No. 1 (Paper available upon request)

Instructor | Mathnasium

May 2018 - August 2018

- > Mathematics instructor for students from grades 0 to 12. Taught topics from basic arithmetic to calculus.
- > Expertise in breaking down complex concepts to accessible language, and building lesson plans around student's needs.

Instructor | The Art Martial Arts Studio

December 2014 - August 2017

- > 15 years experience in 6 styles of martial arts.
- > Taught classes in Mixed Martial Arts. Varying class structures; sparring, grappling, self defense or weapons-specific.
- > Engaged with students who felt frustrated, distracted, or overwhelmed with class, and got them back on the mats.

Sales Manager | kiddywampus

May 2014 - August 2017

- > Manager of day-to-day operations at kiddywampus, a toy store & art studio
- > Installed and managed hardware & software for point-of-sale and security systems. Installed and upgraded networking infrastructure and migrated software systems.

Projects

3D Graphics Engine

- > 3D Engine written in C that interfaced with X11 to render objects from pixel maps, with algorithms and concepts such as painter's algorithm, z-buffer, lights, shadows and clipping
- > Allowed user to move around the rendered objects in a 3D space

Vertex Network

- > Blockchain-based cryptocurrency written in Java 8
- > Support for multiple wallets, proof-of-work mining, and blockchain hash verification

"Tao" SlackBot

- > Bot utilizing the Slack API, written in Python and configured to run on Raspberry Pi which posts quotes from a text file to a slack channel upon user request

HackTheBox Exercises

- > Using Kali Linux tools to exploit machines on the Hack The Box network. Following industry standard practices of scanning, enumeration, exploitation & privilege escalation with tools such as Metasploit, MSF Venom, Burp Suite, etc.

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Projects (cont.)

Pocket Sand

- > A collection of Python scripts used for solving problems commonly encountered in CTFs, relating to Cryptography, encryption, & others

Personal Website

- > Personal blog used for writeups & documentation of programming projects and penetration tests

Various CTFs

- > Participated in various CTF's to hone my skills in security concepts such as malware reverse engineering, network traffic analysis, password cracking, web app exploitation, cryptography, etc.

Education

Lewis & Clark College -- Portland, OR

- > B.A., Computer Science (Anticipated May 2021)
- > Captain of the Lewis & Clark Cybersecurity Team
 - o Competed in the Pacific Rim Collegiate Cyber Defense Competition and NCL Games
 - o Created curriculum to teach members about Windows and Linux best practices, system hardening, Active Directory/GPO basics, log analysis through Splunk, and basic pentesting practices with Kali Linux
- > ACM Co-Founder and Board Member
 - o Consolidated 3 fragmented clubs into one organized group, streamlined operations and budgeting
 - o Work with the Admissions department to act as a liaison for the CS. Department for new students with demonstrated interest
 - o Worked with students and faculty to secure education resources and plan computational and interdisciplinary events

Skills

Languages

- > Python
- > C
- > Java
- > Go

Technologies / Methodologies

- > Git
- > Linux/Unix
- > Kali Linux
- > Metasploit
- > Various penetration testing tools
- > Windows Server (2012 & 2016)
- > Active Directory
- > Wordpress
- > AGILE/SCRUM