

SANTIAGO ESPINOSA MOOSER

ABOUT

I am a final year Computer Science student at the University of Hong Kong enthusiastic about and with a passion for Cyber Security. Through the last few years I have had internships across DevOps, Penetration Testing, DevSecOps and Operational Cyber Security. I enjoy being a team player and sharing ideas with my colleagues for any feedback and constructive criticism. I am currently looking for a Graduate Cyber Security roles in a fast paced and energetic environment.

PROJECTS

血 Haskell-based interpreter:

Developed a Haskell-based interpreter for a custom programming language as the final project for the Principles of Programming Languages Course. This project required understanding the different principles of programming languages such as First-class Functions, Variable Scoping, Mondads and Mutable States in order to build an interpreter that was able to implement these features. See https://github.com/santiagomooser/haskell-based-interpreter.git

Computer Science Association Virtual Career Week 2022:

Organized and spearheaded the 2022 virtual career week event for the Computer Science Association. Involved six speakers from various companies topics, including: Site Reliability Engineer, IT Governance Risk and Compliance, and Software Engineering. Also served as host for three different fireside talks.

Unraid Self-hosted Media Server:

Deployment an unraid-based server that serves both as a media server and a personal backup for all my data. This server also hosts various docker-based services such as PhotoPrism and Syncthing.

WORK EXPERIENCE

Hex Trust Hong Kong https://hextrust.com Jun 2022 – Present

Hex Trust is a fully-licensed and insured provider of bank-grade custody for digital assets with a focus in security and compliance.

Consultant (DevSecOps & SecOps)

Focused on the 'Build' inititives and 'Shift Left' approach by delivering several projects within DevSecOps, Application Security, Security Automation and Cyber Defense.

Highlights

Worked with senior management including CISO, Head of Platform and Head of Cybersecurity on the first-ever DevSecOps pipeline in the company by researching industry-standard tools. Designed, Tested and Finalized the pipelines in different environments to balance security requirements and efficiency of code deployment.

Automated the implementation of smartcard encryption and the provisioning of Ubuntu-based company laptops through the use of bash scripting. Provisioninig time reduced by more than 90%.

Responded to critical security incidents by investigating logs and alerts on the company's SIEM and WAF systems. Researched and advised on recommended response to the Head of Cybersecurity.

Worked with Head of Cybersecurity to test and evaluate next-gen WAF/RASP and automated pentesting tools.

Set up and ran CIS benchmarks to ensure compliance with industry-standard

Handshake Networking

Hong Kong

https://handshake.hk

May 2020 – Jan 2022 Handshake Networking is a boutique cybersecurity consultancy company that specializes in

penetration testing and application security testing. Pentester, Software Developer, DevOps Engineer (full-time/part-time

Worked in various roles due to the small size of the company: Pentesting, Automation Engineering, Web Development, System Engineering.

Highlights

Independently designed, developed and deployed python-based Django backend API. The API was use to automatically scan vessels aroun the world with the use of remote scanners that communicated through RabbitMQ queues and asynchronous celery tasks.

Developed and deployed full (but simple) DevSecOps pipeline and unit tests on selfhosted GitLab for the API project to speed up the development process.

Installed, managed and maintained XCP-ng hypervisor server and VMs to enable the deployment and use of internally-used services (Bookstack, Samba, Elasticsearch).

Compiled credential list from online sources for use in pentesting

Assisted in the ASV exam recertification by scripting and automating reconnaissance and reporting stages.

Deployed various docker-based services for internal use such as Bookstack (and internal wiki), GitLab and an Ubuntu-based Samba server.

Automated tape backups from XCP-ng server using Bash scripting and transfers.

Developed internal automation tools & web applications for internal use such as an ike-scan & nmap multithreaded wrapper (see github)

PricewaterhouseCoopers New Ventures

Hong Kong May 2019 – Dec 2019

https://www.pwchk.com/en/services/new-ventures.html PWC New Ventures builds software solutions for PWC's client base.

DevOps Intern (Full-time), DevOps Engineer Apprentice (Part-time)

Highlights

Worked with the head of DevOps to automate server deployments and provisionings using Ansible and Terraform. This reduced deployment and privisioning time from 3-5 business days to 30-45 minutes.

Wrote and maintained Ansible-based playbook to deploy internal communication tools instance (Mattermost). This deployment used docker-compose and Bash.

Troubleshooted certificate issues on docker-based deployments through the use of tools such as docker-compose, lazydocker and certbot.

© CONTACT

- **Hong Kong**
- contact@santiago-mooser.com
- GitHub
 - santiago-mooser
- LinkedIn santiago-mooser
- Keybase santiagoespinosa

並 EDUCATION

University of Hong Kong

https://hku.hk/

Bachelor

Computer Science

2018 - 2023

Courses

Cryptography

Design And Analysis of Algorithms

Algorithmic Game Theory

Principles of Operating Systems

淫 SKILLS

Scripting / Automation

Bash Python Shell Linux

Linux systems

Debian Arch Linux Bash

Ubuntu Systemd Troubleshooting DevSecOps & SRE

Shift Left DAST SAST Ansible

Terraform CICD Docker System Administration

XCP-ng Ansible Azure AWS Linode Digital Ocean

AE LANGUAGES

English	Native
Spanish	Native
German	Proficient

♥ INTERESTS

Playing the Bass

Muay Thai, MMA and Running

Co-op Videogames

Cybersecurity and Ethical Hacking

Privacy

Self-hosting

▼ REFERENCES

 Shane Read (Hex Trust) - Chief Information Security Officer & Chief Information Officer

Santiago was always willing to offer his assistance and had excellent technical skills on working software products. Kit Ho (PWC) - Head of DevOps

 Richard Stagg (Handshake Networking) - Director and Managing Consultant