



# SANTIAGO ESPINOSA MOOSER

## ABOUT

Hey there! My name is Santiago. I'm currently a Computer Science student at the University of Hong Kong. If you are reading this, I'm probably looking for a job. This page serves as a quick introduction to my professional life and my personal projects that might be relevant to the job I'm applying to. If you would like to interview me or simply connect with me to collaborate on any projects, feel free to email me using the email address on the right.

## WORK EXPERIENCE

**Hex Trust**  
<https://hextrust.com>  
June 2022 – August 2020

Hong Kong

**DevSecOps Consultant**  
Digital Asset Custodian.

**Hig hlights**

Spearheaded the design, development and deployment of new DevSecOps pipeline and git workflow.

Implemented smartcard decryption for company computers.

Advised on the use of industry-standard security tools.

**Handshake Networking**  
<https://handshake.hk>  
January 2022 – May 2020

Hong Kong

**Software Developer & SysAdmin (full-time/part-time)**  
Handshake Networking is cybersecurity consultancy company.

**Hig hlights**

Designed, developed and deployed Django-based API.

Development of full (but simple) DevSecOps pipeline and unit tests for Django-based API.

Installed, managed and maintained XCP-ng hypervisor server and Ubuntu-based VMs.

Assisted in ASV exam recertification through penetration tests.

Audited the security of clients' IT systems through penetration tests.

Deployed various services for internal use such as Bookstack, GitLab and Ubuntu-based Samba server

Set up offline backup service from XCP-ng to tape.

Thoroughly documented all work on Bookstack

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

**PricewaterhouseCoopers New Ventures**  
PWC digital solutions department.  
<https://www.pwchk.com/en/services/new-ventures.html>  
May 2019 – August 2019

Hong Kong

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

**Hig hlights**

Automated server deployment & provisioning using Ansible and Terraform; Reduced deplotment and prvisioning time from 3-5 business days to 30-45 minutes.

Deployed and maintained services for internal user: Mattermost and MySQL.

Managed doccker deployments in CentOS servers.

Thoroughly documented all work on GitLab Wiki.

Modeled for department: <https://www.pwchk.com/en/issues/cybersecurity-and-privacy/employees-and-cybersecurity-asset-or-liability.html>

**Cathay Pacific Airlines**  
Leading global airline with a global presence in the Asia Pacific region.  
<https://www.cathaypacific.com>  
December 2018 – February 2019

Hong Kong

**Pentesting Intern in Enterprise Testing Department (Full-time)**

**Highlights**

Carried out simple penetration tests of internal systems and webapps.

Installed custom operating systems on company laptops used for security auditing.

General small-task automation with python.

## PROJECTS

**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 and Maintenance of Home Media server as well as backup of personal data

**Complete off-site and offline backup of all personal devices:** Set up a warm backup system for all personal devices to two separate cloud providers through the use of CGNAT VPN, syncthing and ZFS.

## CONTACT

Hong Kong

[contact@santiago-mooser.com](mailto:contact@santiago-mooser.com)

**GitHub**  
[santiago-mooser](#)

**LinkedIn**  
[santiago-mooser](#)

**Keybase**  
santiagoespinosa

## EDUCATION

2018

Present

**University of Hong Kong**  
<https://hku.hk/>  
Bachelor  
Computer Science  
Courses

COMP3357 - Cryptography

COMP3250 - Design And Analysis of Algorithms

COMP3352 - Algorithmic Game Theory

COMP3230 - Principles of Operating Systems

2017

2018

**HKU Space**  
<https://hkuspace.hku.hk/>  
Associate  
Engineering  
Grade: 3.63/4.0

## SKILLS

Python

Advanced

Python

Django

Linux systems

Advanced

Linux

Unix

Bash

Arch

Debian

Ubuntu

CentOS

DevOps & SRE

Working knowledge

DevOps

Site Reliability Engineering

Ansible

Terraform

CICD

Docker

Docker-compose

GitLab

GitHub

Jenkins

System Administration

Working knowledge

SysOps

XCP-ng

Ansible

Xen

Azure

AWS

Linode

Digital Ocean

App Self-Hosting

Working knowledge

Unraid

Cloudflare Tunnels

Tailscale Carrier-grade NAT

Letsencrypt Certificate Automated Renewal

Nginx

docker-compose

Databases / Key-value stores

Working knowledge

MySQL

PostgreSQL

Redis

RabbitMQ

ElasticSearch

## INTERESTS

- Playing the Bass
- Muay Thai, MMA and Running
- Videogames
- Cybersecurity and Hacking
- Privacy
- Self-hosting

## REFERENCES

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

— Richard Stagg (Handshake Networking)