Santiago Espinosa Mooser

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WORK EXPERIENCE

HexTrust   May 2022* – Present
Senior DevSecOps Engineer (Intern → L11 → L12 → L13 engineer)   *Hong Kong*

- **Hardened access to production resources by deploying and maintaining PAM solution.**
  - Designed, implemented & deployed RBAC roles for AWS, Kubernetes, DBs, and Linux servers.
  - This allowed for auditable and maintainable access to our production resources
- **Deployed security infrastructure for Cloud Security Posture Management (CSPM).**
  - Implemented custom alerting related to Kubernetes and cloud services to better monitor our infra.
  - Deployed integrations with multiple cloud providers to increase visibility into our cloud infrastructure.
- **Designed and implemented CICD pipeline to migrate critical services to distroless containers**
  - Proposed, designed and implemented pipeline to build, sign, deploy, and debug distroless containers.
  - Organized technical talks for developers to explain the change & how to work with them.
  - Coordinated and guided developer teams' migration to distroless containers.
  - Modified internal helm chart template to allow for easier debugging of distroless containers.
- Organized, launched and ran private bug-bounty program. Responded to reports as needed & coordinated fixes.
- **Served as internal counsel for developers, including for questions about cryptographic security.**
- Augumented security tooling and CICD pipelines using Python and Bash.

Handshake Networking   May 2020 – Jan 2022*
Penetration Tester Intern (intern → part-time)   *Hong Kong*

- Designed, developed, and deployed Django-based (Python) security scanner.
- Carried out penetration tests and assisted in report writing.
- Managed and maintained on-prem company servers and deployment various services (Gitlab, Bookstack, …)

PWC (New Ventures team)   Jun 2019 – Dec 2022*
DevOps Intern (intern → part-time)   *Hong Kong*

- Reduced provisioning time of company servers from 3-5 business days to 30-45 minutes by automating provisioning with Ansible and Terraform.
- Deployed and maintained internal messaging tool (Mattermost), including backups.

EDUCATION

The University of Hong Kong   Sep 2018 - July 2023
B.S Engineering, Computer Science   *Hong Kong*

- Relevant coursework: Algorithmic game theory, Advanced algorithm design & analysis, Discrete Mathematics, Cryptography, Compiling techniques, Functional programming, Principles of programming languages.

Projects

Automated provisioning of YubiKeys

- Automated provisioning of YubiKeys to allow developers to sign code commits in codebase. [1]

Trading competitions

- **Participated in IMC trading competition**: analyzed trading data & implemented bonds, ETFs and stock trading strategies. Finished 729 out of 10,000+ teams, top 15 in Hong Kong (out of 110+) [1] [2].

SKILLS & INTERESTS

- **Skills:** Automation (python, bash); Linux Management; Reverse engineering; Containerization; Statistics, Low-level programming (C, Assembly, logic flow diagrams); Debugging
- **Interests:** Self-hosting; Systematic trading; Muay Thai; Strategy video games; Running; Self-hosting; Board games; Ethical hacking; Economics