

# Tomás Philippart

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## Work Experience

### ING Bank

Oct 2023 – Mar 2024

*DevOps Engineer – Tech Trainee (ITP)*

*Amsterdam, The Netherlands*

- Engineer within the Software Defined Networking (SDN) team, part of ING Private Cloud (IPC).
- Responsible for maintenance and development of several critical APIs in Go.
- Responsible for developing of a spec-first API generator conforming to IPC's API requirements.

Oct 2023 – Mar 2024

*Red Team Operator – Tech Trainee (ITP)*

*Amsterdam, The Netherlands*

- Red Team Operator within ING's Global CISO Red Team, actively engaged in all phases of end-to-end Red Teams.
- Led cross-functional teams in orchestrating successful initial access campaigns, penetrating target systems and networks.
- Conducted various Penetration Tests and Security Assessments, identifying and mitigating critical vulnerabilities organization-wide.
- Developed custom MacOS malware tooling for initial access and post-exploitation, enhancing the team's capabilities in targeted attacks.

### Cisco

Jul 2021 – Sep 2021

*Network Engineer Intern*

*Lisbon, Portugal*

- Developed a add-on for the FMC REST API to migrate iptables firewall rules to FMC via a REST API. Streamlined this migration process, reducing the time required from around a week to a couple of seconds.
- Conducted several penetration tests and network security assessments in diverse environments.
- Configured multiple Cisco Firepower NGFW and Management Center devices to block attacks and intrusion attempts.

## Education

### University of Amsterdam

Sep 2022 - Aug 2023

*Master of Science in Security and Network Engineering (OS3)*

*Amsterdam, The Netherlands*

- **Relevant Coursework:** Security of Systems and Networks, CyberCrime and Forensics, Advanced Networking, Offensive Technologies, Large Systems.

### University of Lisbon - Instituto Superior Técnico

Sep 2019 - Jul 2022

*Bachelor of Science in Computer Science and Engineering (Graduated with Academic Honors)*

*Lisbon, Portugal*

## Publications

### Building an Evil Phone Charging Station | MSc thesis

- Researched and wrote my Master's thesis, with the topic of "Building and Evil Phone Charging Station", which aims to research how a public phone charging station can be maliciously built in order to extract sensitive information such as PINs, passwords, explicit content. Presented in hack.lu 2023.

### eBPF-based Malware | Research Project

- Found and documented several uses for eBPF in the development of a powerful rootkit, which includes features such as a novel covert communication channel and persistency.

## Skills

**Certifications:** CCNA, TRANSITS I and II CSIRT

**Programming Languages:** Python, Go, C, C++, Java, Swift, JavaScript

**Virtualization:** VMWare (NSX), KVM, Xen, libvirt, OpenStack

**Penetration testing:** Active Directory, OWASP Top 10, Vulnerability Assessments, Compliance

**Network Security:** Wireshark, Firewalls, VPNs, IPsec, SSL/TLS, Intrusion Detection Systems

**Soft Skills:** Leadership, adaptability, attention to detail, analytical thinking