Tomé Lima

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Education & Certifications

Federal University of Pernambuco — Recife, Brazil
B.Sc. in Computer Science — *Oct 2023 – Present*

University of Cambridge — Cambridge, UK
C1 Advanced English Certificate (CEFR C1) — *Jun 2019*

Experience

Software QA Engineering Intern — Jan 2026 – Present
Motorola Mobility (Lenovo Company) — *Recife, Brazil*

- Developed and maintained complex test automation suites using an internal Python framework to analyze software resilience and identify system anomalies in mobile devices.
- Conducted regression, stress, and edge-case testing, simulating unexpected inputs to discover logic flaws and boundary vulnerabilities before production deployment.
- Collaborated with cross-functional engineering teams to perform root-cause analysis of system bugs, ensuring data integrity and software stability.
- Optimized internal testing tools and scripts, increasing test coverage and accelerating the detection of critical system faults.

Tech Stack: Python, Linux, Android, Embedded Software Testing, Git, JIRA

Freelance Linux Server Developer — Aug 2025 – Jan 2026
Independent

- Hardened SSH access for a 6-host Ubuntu network: enforced key-based auth, disabled root login, configured fail2ban and log monitoring, eliminating external brute-force attempts within 48 hours.
- Containerized internal applications using Docker, reducing configuration drift and simplifying deployment across environments.
- Deployed secure remote access using Tailscale, ensuring encrypted, identity-based networking between on-prem and remote hosts.
- Implemented a self-hosted cloud platform (Nextcloud) with user ACLs and audit logging for controlled file access.

Tech Stack: Linux, Docker, Tailscale, OpenSSH, Python, Bash

CTF Team Member — Sep 2025 – Present
LSEC-UFPE

- Participate in national and international security competitions (BSides, Iran Tech Olympics, JailCTF) focusing on binary exploitation, reverse engineering, and web vulnerabilities.
- Deliver internal workshops on offensive tooling (Burp Suite, pwntools, Ghidra) and vulnerability triage workflows.
- Document and publish post-event writeups and mitigation analyses on team repositories.

Tech Stack: Linux, Python, Burp Suite, pwntools, Nmap, Wireshark, Ghidra, Git

Selected Projects

Log4Shell Vulnerability Lab | Python, Docker, Log4j, Burp Suite — Jul 2025

- Reproduced CVE-2021-44228 (Log4Shell) in a sandboxed Docker lab; developed exploit PoC and verified detection via custom WAF rules and patched JNDI configurations.
- Authored a detailed technical report for mixed audiences covering exploit chain, impact assessment, and mitigations.

Technical Skills

Programming: Python, C/C++, Java, Bash, SQL, JavaScript
Security & Analysis: Test Automation, Vulnerability Analysis, Reverse Engineering, Wireshark, Nmap, Burp Suite, pwntools
Platforms: Linux (Ubuntu/Debian), Docker, Tailscale, OpenSSH, Embedded Platforms (Mobile)
Languages: English (Fluent C1), French (Basic), Spanish (Basic)