

Matheus Henrique Silva Ferreira

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Education

Military Institute of Engineering

Cartographic Engineering

Rio de Janeiro, Brazil

Jan 2020 - Dec 2024

Certifications

2026	OffSec , OSCP - Offensive Security Certified Professional	Certification
2026	Hack The Box , CAPE - Certified Active Directory Pentesting Expert	Certification
2025	The SecOps Group , C-ADPenX - Certified Active Directory Pentesting eXpert	Certification
2025	Hack The Box , CPTS - Certified Penetration Tester Specialist	Certification
2024	CyberWarfare Labs , CRTA - Certified Red Team Analyst	Certification
2024	Desec Security , DCPT - Desec Security Certified Penetration Tester	Certification

Work Experience

Flowa Technologies

Information Security Analyst

Rio de Janeiro, Brazil

Feb 2025 - Present

- Developed automation scripts to streamline repetitive security operations, integrating Microsoft Teams notifications and automated ticket creation for the support team, reducing response time.
- Conducted Active Directory security assessments, identifying misconfigured permissions and implementing a privilege segregation strategy for high-privileged accounts, significantly reducing the environment's attack surface.
- Strengthened application security posture by establishing secure development best practices during the developer onboarding process, and identified and remediated Wi-Fi infrastructure vulnerabilities.

ATG - Americas Trading Group

Intern in Information Security

Rio de Janeiro, Brazil

Dec 2023 - Jan 2025

- Executed Red Team engagements to evaluate defensive controls, performed mobile application penetration testing, and delivered detailed findings in formal pentest reports.
- Mapped the entire Active Directory infrastructure, identifying critical misconfigurations and privilege escalation paths across the environment.
- Evaluated third-party vendor security solutions, providing technical recommendations to strengthen the organization's security stack.

ATG - Americas Trading Group

Development Intern

Rio de Janeiro, Brazil

Jun 2023 - Dec 2023

- Redesigned the application secrets management workflow, implementing a secure retrieval mechanism to reduce exposure of sensitive credentials.

Projects

- **Technical Skills:** LaTeX, Python, SQL, C#, Arduino, Html, Css.
- **Soft Skills:** Agile methods, teamwork, presentation skills, report writing.

Blog to post CTF Writeups, Cheatsheets and some theory

Personal Project

Rio de Janeiro, Brazil

May 2025

- I really like to help others and possibly teach them something new, so I have created a personal blog at <https://writeups.mhsferreira.com> where I post some writeups to challenges that I've attempted but focusing on the theory and different ways that I was able to solve it, not only showing how to solve, in expectation of someone learning something new from it.

WiFi Hacking Home Lab

Personal Project

github.com/mHijuxS/wifi-lab

2025

- Designed and built a self-contained WiFi penetration testing lab using Docker and mac80211_hwsim, enabling realistic wireless attack simulations without touching the host network.
- Architecture includes isolated AP, Client, and Attacker containers with automatic phy device namespace assignment, supporting WPA/WPA2 cracking, evil twin attacks, and deauthentication exercises.

Active Contributor to Offensive Security Tools

Open Source Contributions

github.com/mHijuxS

2025

- Contributed to open source offensive security projects such as bloodyAD, an Active Directory exploitation framework, by submitting feature improvements.

1st Place in the Introduction to Engineering Projects Course

Military Institute of Technology

Rio de Janeiro, Brazil

Aug 2022 - Nov 2022

- Course focused on creating a startup to develop a useful product for the Brazilian army.
- A startup was created focusing on geolocation to track friendly troops using GPS and Arduino.
- Negotiation pitch with entrepreneurs from the Urca Angels group.