



João Miguel de Sousa Ferro

Cybersecurity Analyst & Software Developer

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Cybersecurity Analyst & Software Developer specializing in building scalable security automations. Experienced in architecting internal platforms using **Python (Django/FastAPI)** to manage thousands of daily vulnerability scans and automated GRC workflows for tens of applications.

EXPERIENCE

Cybersecurity Analyst, *Worten Portugal*

01/2026 - Present

Lisbon, Portugal

- **Vulnerability Management:** Manage the end-to-end vulnerability lifecycle handling thousands of scans and vulnerabilities, coordinating with engineering teams to prioritize and remediate high-risk findings.
- **SOC Monitoring & Incident Response:** Monitor security alerts across environments, performing initial triage and root-cause analysis.
- **Purple teaming investigation:** Conduct investigations using multiple security tools, including dark-web monitoring.

GRC Analyst, *Worten Portugal*

09/2024 - 12/2025

Lisbon, Portugal

- **Security Engineering:** Architected and implemented a Django-based security platform that handles security requirements for tens of production applications, automating manual risk assessments.
- **DevSecOps Integration:** Collaborated with DevOps peers to integrate automated security gatekeeping and compliance checks into GitLab CI/CD pipelines.
- **Risk Visualization:** Built Power BI dashboards enabling data-driven decision-making.
- **Phishing Simulations:** Managed enterprise-wide phishing campaigns and analyzed behavioral metrics to improve internal security awareness (KnowBe4).

PROJECTS

Personal Security Lab & Systems Research

- Maintain a self-hosted **Fedora Server** infrastructure acting as a service provider for tools such as **Vaultwarden**, **Portainer**, and **Uptime Kuma** (and many others).
- Utilize a **CachyOS (Arch-based)** workstation as a primary environment for development and **security research**, utilizing virtualization for **network security testing**.
- Manage service containerization and orchestration via **Docker**, focusing on infrastructure availability and **container security** experimentation.
- Developed custom **Python and Bash scripts** to automate system monitoring, health checks, and backup orchestration across the lab.

EDUCATION

BSc in Computer Science & Business Management,
Iscte - Instituto Universitário de Lisboa

09/2020 - 07/2024
Lisbon, Portugal

- **Relevant coursework:** Cybersecurity Fundamentals, Software Architecture, Web Development, Project Management
- **Leadership:** Spark Agency Ambassador; Team Leader (2022-23); AIESEC roles in External Relations & VP of Finance and Legalities

SKILLS

Development & Systems

- **Languages:** Python (FastAPI, Django), Go, Rust, Bash.
- **Frontend:** JavaScript, React.
- **Systems:** Linux Systems Administration (Fedora Server, Arch-based distributions), custom security tooling and exploit automation.

Cloud & Infrastructure

- **Cloud:** AWS, Azure AD, GCP (Basics).
- **DevOps:** CI/CD Pipelines (GitLab, GitHub), Docker, Kubernetes (Entry-level).
- **Databases:** PostgreSQL, SQLite, MongoDB.

Security & Methodologies

- **Frameworks:** MITRE ATT&CK, OWASP Top 10, CWE (Common Weakness Enumeration).
- **Core Domains:** SOC Monitoring, Vulnerability Management, TPRM, Security by Design (SbD).
- **Architecture:** Enterprise Architecture (ArchiMate).

LANGUAGES

Portuguese
Native

English
Proficient

Spanish
Beginner

KEY ACHIEVEMENTS

Real Production Application, *Worten*

Leading development of a full-stack Django application to automate security requirements (Security by Design) and TPRM management. Also the lead developer of a FastAPI (backend) and Next.js (frontend) application to manage vulnerabilities in a centralized environment at Worten.

Start-up Competition, *Junior Achievement*

Co-founded "Finance 101," winning Lisbon's Junior Achievement startup competition and advancing to nationals.

VP Finance @ AIESEC Lisboa ISCTE, *AIESEC Lisboa ISCTE*

Served as Vice President Finance & Legalities, AIESEC Lisboa ISCTE, overseeing multiple €1k+ budgets, compliance and contracts.