

# João Guedes

## Professional Experience

<b>Application Security Engineer</b>	<b>Checkmarx</b>	<b>2024 - Present</b>	<b>Full Time</b>
<ul style="list-style-type: none"><li>Analyze and triage complex vulnerabilities across multiple languages within large-scale codebases.</li><li>Conduct vulnerability research and exploit replication to validate and contextualize findings.</li><li>Develop and maintain internal tooling to automate security analysis and reporting.</li><li>Design, deploy, and maintain internal AppSec infrastructure with Docker, Nginx, and Traefik on Linux environments.</li><li>Build Python-based automations and Power BI dashboards for large-scale data analysis and reporting.</li><li>Participate in offensive security initiatives (e.g., CVE hunts) using tools like Burp Suite, Nmap, and Metasploit.</li></ul>			
<b>QA Engineer (SWE Focus)</b>	<b>Checkmarx</b>	<b>2021 - 2024</b>	<b>Full Time</b>
<ul style="list-style-type: none"><li>Ensured quality and reliability of the company's SAST engine through testing and tooling.</li><li>Built full-stack internal tools (Node.js, Go, Python, React) to visualize test coverage and source code diffs.</li><li>Automated CI/CD pipelines in Jenkins and GitHub Actions to streamline validation and deployment.</li><li>Authored end-to-end tests in Cypress and standardized QA workflows for engineering teams.</li><li>Designed Power BI dashboards for visibility into test metrics and performance trends.</li></ul>			

## Selected Technical Experience

- Full-Stack Development: 4+ years building production-grade systems using Node.js, Express, Go (Gin), Python (Flask), Java (Spring Boot), and React.
- Security: Practical experience in AppSec, SAST, vulnerability analysis, and internal pentesting. Familiar with OWASP methodologies and offensive tools (Burp Suite, ZAP, Nmap, Metasploit).
- APIs & Protocols: REST, GraphQL, gRPC, WebSockets, and low-level networking protocols (HTTP, TCP/UDP, DNS, SSH, SMB, RDP).
- DevOps & Infrastructure: Experienced with Docker, Docker Compose, Nginx, Traefik, Jenkins, GitHub Actions, and Linux-based production environments.
- Databases: MongoDB, PostgreSQL, MySQL, DynamoDB — with experience designing indexes, aggregation pipelines, and caching strategies.
- Automation & Data Analysis: Extensive use of Python, Power BI, and Excel for reporting, analytics, and operational intelligence.
- System Administration: Self-hosted infrastructure (Home Server) with Proxmox as hypervisor, a NAS, Docker containers for apps, Nginx for reverse proxy, DNS server for resolving internal hostnames and VPN for remote access.
- Version Control: 6+ years of Git expertise across GitHub, GitLab, and enterprise CI/CD integrations.
- Secure Coding Practices: Knowledge of authentication, access control, encryption, and secure data handling.

## Education

<b>Master's in Management Engineering and Information Systems</b>	<b>2021 - 2024</b>
University of Minho	Guimarães, Portugal
<b>Bachelor's in Management Engineering and Information Systems</b>	<b>2018 - 2021</b>
University of Minho	Guimarães, Portugal

## Skills

**Languages:** JavaScript, Python, Go, Java, Kotlin, C#, R, SQL  
**Frameworks/Libraries:** Express, React, Flask, Django, Spring Boot, Gin, ASP.NET, Pandas, Jupyter, Matplotlib  
**Databases:** MongoDB, PostgreSQL, MySQL, DynamoDB, Redis, SQLite  
**DevOps & Tools:** Docker, Nginx, Traefik, Jenkins, GitHub Actions, Linux, PowerShell, Proxmox, Azure DevOps  
**Security:** SAST, AppSec, Pentesting (Burp, ZAP, Nmap, Metasploit), Secure Coding, OWASP Top 10  
**Networking:** TCP/IP, VPNs (OpenVPN, Tailscale), DNS, Reverse Proxies, Load Balancing, Firewalls  
**Other:** REST, GraphQL, gRPC, WebSockets, Git, Power BI, Excel Automation

## Certifications

<b>Junior Penetration Tester, INE</b>	2025
<b>DevOps Engineering on AWS, AWS</b>	2023