

# TANIA MACHADO SANTANA

DevSecOps & Application Security

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## SUMMARY

A security-first engineer with a DevOps mindset, specializing in **automating, securing, and monitoring the software development lifecycle**. Proficient in building resilient infrastructure, implementing CI/CD pipelines, and hardening systems against threats. Passionate about embedding security into the development process and skilled in identifying and mitigating vulnerabilities in a collaborative, peer-led environment.

## EXPERIENCE

### DevSecOps & Application Security Analyst

*Capital City College Group | 12/2023 - Present*

- Championed DevSecOps principles by mentoring students on secure coding practices, Git for version control, and command-line proficiency.
- Conducted peer code reviews to enforce security best practices and prevent common exploits (SQLi, XSS, buffer overflows).
- Developed and delivered training on secure authentication, least privilege principles, and safe debugging techniques.

### Parish Administrator

*St George and All Saints Tufnell Park | 05/2022 - 06/2023*

- Automated financial tasks** with Excel macros, saving 6 hours monthly and improving data accuracy by 15%.

### Administrative Support Worker

*University College London Hospitals NHS Foundation Trust | 02/2021 - 05/2022*

- Diagnosed and resolved critical workflow inefficiencies** in vaccine preparation, leading to a 15% improvement in team efficiency and a significant reduction in errors.
- Supervised the training of 10+ new staff members on vaccine administration and emergency response.

## TECHNICAL PROJECTS & HOMELAB

- Engineered and administered a personal homelab on a **Raspberry Pi running Kali Linux** for security testing and automation.
- Automated the deployment of containerized applications using **Nginx as a reverse proxy**, secured with Let's Encrypt SSL certificates.
- Hardened system security by **configuring UFW firewall rules, monitoring logs for intrusion attempts**, and implementing fail2ban.
- Developed a Python script to **automate log analysis**, enabling proactive threat identification and improving system observability.
- Utilized networking tools (`nmap`, `wireshark`, `netstat`) to diagnose vulnerabilities and troubleshoot connectivity issues.

## SKILLS

### Security & Monitoring

Splunk

Nmap

Wireshark

UFW

Log Analysis

### CI/CD & Automation

Git/GitHub

Bash Scripting

Python

Postman

Cron

### Containerization & Deployment

Docker

Podman

Nginx

### Languages

Python

Go

JavaScript

C

SQL

### Operating Systems

Linux (Debian, Ubuntu)

macOS

## CERTIFICATION

### Prince2® foundation

*University of Westminster*

## EDUCATION

### BSc Business Management and Finance

*UNIFACS | Universidade Salvador*

## LANGUAGES

English, Portuguese, Spanish