

# Mariana R. Valente

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## Skills

- **Programming Languages** Python, Java, PHP, Javascript, Bash
- **Databases:** MongoDB, MySQL
- **Networking & Security:** OSI Model, Subnetting, Snort, Wireshark, Ports & Protocols, Linux
- **Tools & Technologies:** Google Cloud (GCP), Laravel 10, NextJS, Docker, Git, Power Automate, Vue.js, Postman, Apache2, HAProxy

## Experience

### Analyst Consultant – BSO Consulting

November 2024 - Present

- **Project Lead on Web App Development:** Led the development of a web application using a low-code platform, significantly accelerating progress. Set up the Virtual Private Server (VPS), managed domain and SSL certificate, and implemented a custom UI using Vue.js.
- **Digital Transformation Initiative – Medical Faculty, University of Lisbon:** Attended key meetings to assess client needs, developed a strategic improvement plan, and helped enhance their digital capabilities.
- **Tech Support Team Member:** Recently joined the company's Tech Support Team, providing technical assistance and troubleshooting solutions.

## Education

- Bachelor's degree in information technology at FCUL; September 2020 - January 2025

## Projects

### Final Degree Project | [Repository](#)

September 2023-June 2024

- Developed the entire REST API in **Laravel** and implemented load balancers and servers using **GCP** and **HAProxy**.
- Automated build and deployment with **Bash** scripts, improving VM elasticity and enforcing firewall rules to block specific countries.
- Conducted fault tolerance testing, vulnerability assessments (**OWASP**), and API acceptance testing with **Postman**.

### MySNS System | [Repository](#)

September 2023-June 2024

- **Command Processing & Server Administration:** Implemented full command handling on both server and client sides, including administrative functionalities.
- **Hybrid Encryption System:** Developed encrypted file transfer with secure key storage, error handling, and decryption mechanisms.
- **User Management & Authentication:** Created user registration with secure password storage (salts & hashing) and implemented command-level password verification.