



# Luís Barros

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## Experience

### SUPPORT ENGINEER, SECURNET – NOV. 2023 - PRESENT

- **Infrastructure:** Implemented and maintained monitoring solutions using Zabbix and Grafana.
- **Technical Support:** Provided rapid-response troubleshooting and solutions for clients.
- **Collaborations:** Streamlined internal processes for improved operational stability.

### FREELANCE PROGRAMMER, JLP REPARAÇÕES AUTO – JAN. 2025 - PRESENT

- **Full-stack Development:** Designed and implemented a comprehensive auto repair shop management system using MongoDB, Express.js, React and Node.js (MERN stack), hosted on AWS and SSL setup.
- **Frontend Excellence:** Developed responsive interfaces with Next.js and Tailwind CSS, including IP-restricted admin access.
- **DB Architecture:** Designed secure REST APIs and MongoDB schemas for bookings, orders, and inventory, with conflict handling.
- **System Integration:** Configured NGINX reverse proxy, HTTPS (via Namecheap SSL), environment-based configs, and process management via PM2.

### FREELANCE APP DEVELOPER, MILENIA - INFORMÁTICA E SERVIÇOS, LDA. – FEB. 2023 - PRESENT

- **Development:** Built and deployed multiple iOS applications using React Native
- **Design:** Created comprehensive application branding and launch materials
- **Technology Stack:** Javascript, Typescript, UI/UX Design Principles

### INTERN, SECURNET – JUN. 2023 - AUG. 2023

- **Network Lab:** Designed and deployed an enterprise-grade network using FortiGate and FortiSwitch, including segmented DMZ (web, email, SFTP) and integrated monitoring with Zabbix, Grafana, and GLPi.
- **Machine Learning for Monitoring Optimisation:** Applied KMeans clustering to optimize alert thresholds in Zabbix, achieving a silhouette coefficient of **0.85**, improving the accuracy and relevance of system alerts.

## Education

### European University, Lisbon – Post-Grad in Cybersecurity

### Polytechnic of Guarda, Guarda – Bachelor's of Computer Engineering

- **Thesis:** [Intelligent Network Monitoring System](#)
- Vice-President of the Computer Engineering Student's Department

## Languages

Portuguese: C2

English: C2

French: B1

## Skills

- **Systems & Security:** FortiOS, Linux, Zabbix, VMware, MySQL, Oracle, Apache, Grafana, GLPi
- **AI & ML:** TensorFlow, KMeans
- **Front-end:** JavaScript, HTML, CSS, React
- **Back-end:** NodeJS, Python, Java, Kotlin, ASP.NET, PL/SQL
- **Tools:** Git, Docker, PM2, NGINX, AWS (EC2)

## Certifications

### Development & AI

- [Databricks Generative AI Fundamental](#)
- [DeepLearning.AI TensorFlow Developer](#)

### Cybersecurity & Network

- [Fortinet Certified Associate Cybersecurity](#)
- [CCNAv7 \(Introduction, SRWE, Enterprise\)](#)
- [Cybersecurity Foundations Specialisation](#)