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Professional Experience

04/2022 – 04/2023 Leiria, Portugal	**Student Researcher,** *Polytechnic of Leiria, CIIC - Computer Science and Communication Research Centre* • Performed initial research about Smart Cities and their impact on our society. • Development of various simulations of an IoT network to represent a Smart City. • Performed cyber attacks on the previous simulation and captured the traffic generated by these attacks. • Studied Machine Learning, Neural Networks, Multilayer Perceptron, and Classification Metrics. • Built various Neural Networks to identify intrusions in the datasets mentioned above.
02/2019 – 02/2021 Leiria, Portugal	**Full-Stack Web Developer,** *EstudarPortugal* • Developed a web application with Laravel which had the purpose to manage human resources, documents, and financial situations for the company. • Designed the data model used in the application mentioned above. • Designed all the graphical interfaces in the application mentioned above. • Managed and maintained a web and e-mail server. • Built a website for a subdomain of the company. • Implemented the work methodology Srumban.

Education

10/2020 – Present Leiria, Portugal	**Bachelor Degree in Computer Engineering,** *Polytechnic of Leiria* 🔗 • Current GPA**:** 15,32/20 • ECTS: 153/180
09/2018 – 07/2020 Leiria, Portugal	**Short Cycle Programmes (TeSP) in Web Development and Multimedia,** *Polytechnic of Leiria* 🔗 • GPA: 19,52/20

Projects

Lyka Systems, *Founder & Core contributor* 🔗
- Wrote a web application to manage human resources, documents and financial situations for the company EstudarPortugal.
- Application developed in Laravel.
- Made various scripts in bash to verify important information regularly with the help of crontab.

Portal de Divulgações, *Founder & Core contributor*
- Built a web application using Laravel to manage news of different services in Polytechnic of Leiria.
- Wrote a script to send automatically newsletters to the students who may concern about the topic of the news.
- Designed and built the front end of the application.

My Garden, *Founder & Core contributor* 🔗
- Laravel application for an IoT solution with the purpose of a full independent vegetable garden on the inside of a container.
- Built a python script to open the doors of the container with a face recognition system.
- Using the program Cisco Packet Tracer, I helped to design and build the network of the containers.
- Built an API to send and receive information about the vegetables in the containers to control aspects like temperature, humidity and many more.

La Redoute 3D, *Founder & Core contributor* 🔗
- Built a conceptual website for La Redoute with a 3D showcase of products using Three.js.
- Deployed a JavaScript mixer called Webpack in order to add organization and simplicity to the project.
- Designed all the mockups of the application using the tool Figma.

Other relevant projects 🔗

Awards and Certifications

Merit grants, *Polytechnic of Leiria* 🔗
Merit grants were given to the five students with higher GPAs in the Short Cycle Programmes (TeSP).

CCNA - Introduction to Networks, *Cisco Networking Academy* 🔗
Course completed with a score of 91% in the ITN Final Skills Exam (PTSA) and 88,2 % in the Final Exam.

Capture the Flag Competition, *Void Software & Hack The Box* 🔗
In 8 hours of competition, I captured 3 of the 6 available flags, giving me the third position in the competition.

Skills

Proficient	**Highly Familiar**	**Other Technologies**
Linux, Python, Bash, Networking & System Administration	*Laravel, JavaSript, Vue 3, Java, Perl, Tensorflow & C*	*Git, Electron, SQL, Virtualization, Azure, Cisco IOS & Kubernetes*

Languages

Portuguese	**English**	**French**
C2, Native with full proficiency	*C1, Highly proficiency*	*A2, Elementary proficiency*