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# Education

## Faculty of Engineering of the University of Porto (FEUP)

Sep 2017 - Present (Exp. Jul 2022)

Porto, Portugal

- INTEGRATED MASTERS (BSc + MSc) IN INFORMATICS AND COMPUTING ENGINEERING
- Current cumulative GPA: 18.47 / 20; finished the 4th year out of 5
- Relevant coursework: Systems Architecture, Distributed Systems, Web App Development, Algorithms & Data Structures, Artificial Intelligence
- Received a Merit Scholarship in the 2018/19 Academic Year, given to the best students in Portugal.

# Jobs & Experiences \_\_\_\_\_

### Amazon Web Services 🗹

Jun 2021 - Sep 2021

#### SOFTWARE DEVELOPMENT ENGINEER INTERN

Berlin, Germany

- Worked on performance improvements for the Amazon Lookout for Metrics service.
- Decreased memory consumption of the training workflow by ~93% and allowed a potential throughput increase from 50K time series to 1M time series, by developing a pre-processing phase that converts datasets into a more efficient format.
- Performed extensive testing and performance benchmarking, in order to report execution times, memory consumption and CPU usage.

INESC TEC ☑

Feb 2020 - May 2021

### RESEARCH ASSISTANT - "BIG DATA FOR ENERGY"

Porto, Portugal

- · Developed a platform to foster energy analytics for R&D institutions, by automating energy and weather data collection and management.
- Automated energy data collection by making scripts that periodically fetch data from APIs of electricity data sources in Europe.
- Implemented missing values detection by developing a module that monitors DB with 130+ tables, each one with an average of 3 million rows.
- Allowed registered users to extract desired data by building an authentication layer and a REST API, and by helping create a user interface.
- Main technologies used: Python, Django, Pandas, Apache Cassandra, RabbitMQ, Celery, Nginx, Vue.js, Docker, GitLab CI/CD.

## Faculty of Engineering of the University of Porto (FEUP)

Feb 2021 - May 2021

TEACHING ASSISTANT

Porto, Portugal

Helped students in the IART - Artificial Intelligence subject with search and optimization algorithms, and Machine Learning exercises.

Critical Software 🗹

**SOFTWARE ENGINEER INTERN** 

- Coimbra, Portugal · Learned about the methodologies and tools used in critical projects, such as software for airplanes, trains and banks.
- · Built a real time chat service using Java and Kafka, and an encryption/decryption system for smart meter data with Java, SSL and XML.

# **Projects**

### Labcentric - Monitoring and Management System for Laboratories 🗹

Oct 2020 - Jun 2021

LARAVEL (PHP), HTML/CSS/JS, POSTGRESQL, PYTHON, MQTT, NODE.JS, RASPBERRY PI, DOCKER, NGINX, HEROKU

Team of 8 people

- Team leader of a project developed for the Dr. Ricardo Jorge National Health Institute 2.
- Developed a web app for management of reagents, samples, procedures and executions, results, and other important data for the institute.
- Developed a system that monitors user actions during a lab procedure, by identifying QR Codes on reagents and recognizing voice commands.
- Allowed users to configure input/output devices that best suit their needs, by designing an extensible and scalable plugin-based architecture.

### Intercompany Process Automator App 🗹

Set 2020 - Dec 2020

### JAVASCRIPT, REACT, BULMA (SCSS), NODE, DOCKER, POSTGRESQL, PRIMAVERA JASMIN API

Team of 4 people

- Promoted automation of purchase/sales processes between companies by developing a web application that integrates with the Primavera Jasmin API , that defines and handles all the transactions based on previously defined business processes.
- Offered overall view of transaction processes between companies by creating an interface that provides an overview of all related documents.

## Distributed Backup Service for the Internet 🗹

May 2020 - Jun 2020

JAVA, SHELL

Team of 4 people

- Developed a distributed P2P system with the purpose of backing up files divided in chunks in other peers.
- Protected the system against faults and raised its stability and scalability by implementing and using the Chord Protocol.
- Assured the privacy and integrity of the messages, and increased system security by implementing secure communication channels with JSSE.
- Achieved high degrees of concurrency and parallelism by using thread pools and non-blocking I/O.

# Skills

Git, Java, Python, Django, Javascript, C/C++, HTML/CSS/PHP, Laravel, Node.js, SQL, REST API, OOP - Proficient

Technical Docker, React, Go, CI/CD, Agile/Scrum, Unix/Linux - Medium Understanding

NoSQL, AWS - Prior Experience

Portuguese (Native), English (Full Professional Proficiency), Spanish (Limited Working Proficiency) Languages