Eduardo **Ribeiro**

Software Engineering student @ FEUP · Porto, Portugal

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Education

Faculty of Engineering of the University of Porto (FEUP) ⬀   *Sep 2017 - Present (Exp. Jul 2022)*

INTEGRATED MASTERS (BSc + MSc) IN INFORMATICS AND COMPUTING ENGINEERING   *Porto, Portugal*

- **Current cumulative GPA: 18.47 / 20.** Currently on my 5th 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.
- Part of the **Informatics Engineering Student Branch** ⬀, where I organized and participated in several events and workshops.
- Currently studying abroad for one semester, through the ERASMUS program, at **Aalto University** ⬀, in **Espoo, Finland.**

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 ⬀   *Jul 2020*

SOFTWARE ENGINEER INTERN   *Coimbra, Portugal*

- 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* ⬀.
- 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.

Photon - 3D Graph Visualizer of High Growth Opportunities on the Energy Market ⬀   *Mar 2021 - May 2021*

TYPESCRIPT, NODE, REACT, NEO4J, DOCKER, OWL, PROTÉGÉ   *Team of 4 people*

- Developed a tool capable of extracting and analyzing energy related data from various sources, detecting high growth opportunities within the energy market and industry, and showcase that information to the user in a 3D graph interface.
- Extracted the most up-to-date news and information about the energy market by using several news and social media APIs.
- Defined and collected data for several energy sectors by using the *Open Energy Ontology* ⬀ to recognize energy-related areas and concepts.

NewsLab - Collaborative News ⬀   *Mar 2020 - Jun 2020*

PHP, LARAVEL, JAVASCRIPT, HTML, CSS, POSTGRESQL, DOCKER   *Team of 4 people*

- Developed a web app/platform to write and share news and opinions, enabling people to interact with the articles by rating and commenting.
- Performed various tasks regarding planning and specification, from developing frontend page mockups to designing the database structure.
- Adopted an Agile methodology to develop this project, working in iterations and selecting user stories to implement in each one.

Skills

Technical	**Git, Java, Python, Django, Javascript, C/C++, HTML/CSS/PHP, Laravel, Node.js, SQL, REST API, OOP** - Proficient
	Docker, React, Go, CI/CD, Agile/Scrum, Unix/Linux - Medium Understanding
	NoSQL, AWS - Prior Experience
Languages	**Portuguese** (Native), **English** (Full Professional Proficiency), **Spanish** (Limited Working Proficiency)