Eduardo **Ribeiro**

Software Engineering student @ FEUP

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Education

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

Integrated Masters (BSc + MSc) in Informatics and Computing Engineering   *Porto, Portugal*

- **Current cumulative GPA: 18.37 / 20**; currently enroled in the 4th year
- Received a **Merit Scholarship** for the 2018/19 Academic Year, for an average of **19.0 / 20 values.**

Jobs & Experiences

Research Assistant - "Big Data for Energy"   *Fev. 2020 - Present*

INESC TEC ⬀   *Porto, Portugal*

- Currently developing a platform to foster energy analytics competition and exchange of data between R&D institutions/universities, by using big data and data science technologies to automate energy data (e.g., electricity markets) collection and management.
- Designed and developed a REST API and a user interface/dashboard for general use of the application.
- Organized a hands-on workshop for the INESC TEC Power and Energy Systems team, to showcase the tool for their future usage.
- Main technologies used: **Docker, GitLab CI/CD, Python, Django, Pandas, Cassandra, RabbitMQ, Nginx, Vue.js.**

Software Engineer Intern   *Jul 2020*

Critical Software ⬀   *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**.
- Built an automatic encryption/decryption system for smart meter data with **Java**, **SSL** and **XML documents**.

Active Member   *Nov 2019 - Present*

NIAEFEUP - Informatics Engineering Student Branch @ FEUP ⬀   *Porto, Portugal*

- Participated in and organized a variety of events/projects in different areas, ranging from Cybersecurity to AI to Competitive Programming.
- Member of the External Relations Department for Semana de Informática, a Software Engineering event in FEUP with talks and workshops.

Projects

Platform for exchange of classes between students ⬀   *Dez 2019 - Present*

Python, SQLite, Docker   *Team of +/-6 people*

- Currently developing a platform to be used by students to help them better organize class exchanges between them, by using AI algorithms (hill climbing, genetic algorithms, etc) to create a new allocation of classes given the classes that the students wish to be in.

Distributed Backup System ⬀   *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 using the Chord Protocol.
- Implemented secure communication channels with JSSE and achieved high degrees of concurrency and parallelism with thread-pools and non-blocking I/O.

OpenCX - Mobile App for Conferences ⬀   *Out 2019 - Jan 2020*

Flutter, SQLite, Gherkin, Bluetooth   *Team of 4 people*

- Contributed to an open source project by developing a mobile app for conferences, that allows the user to see the conference's program and to make a custom schedule, receiving push notifications when an event was about to start and also allowing BT scanning for near-by events.

Security Van Routing ⬀   *Mar 2019 - May 2019*

C++, GraphViewer (Java API)   *Team of 3 people*

- Developed application that calculates paths for trucks with pickup and delivery of items along the way, by implementing various "shortest path" (and similar) algorithms (Dijkstra, Floyd-Warshall, DFS, BFS, identifying articulation points, and more), as well as some heuristic algorithms.
- Developed a user interface, for the display of the graph and paths.

Skills & Interests

Technical   **Git** (3 years); **Java** (2.5 years); **C/C++** (3 years); **Python** (1 year); **Javascript** (2 years); **HTML5, CSS, PHP** (1 year); **Docker** (1 year); **SQL** (1.5 years); **NoSQL (Cassandra)** (7 months); **Node.js**, **REST API**, **OOP**, **CI/CD**, **Agile/Scrum**, **Unix/Linux**

Languages   **Portuguese**(Native), **English**(Full Professional Proficiency), **Spanish**(Limited Working Proficiency), **French**(Basic understanding)