Eduardo Ribeiro

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WORK EXPERIENCE

Software Development Engineer II   **Mar 2025 — Present**
Amazon   *Berlin, Germany*

- Currently on the **Community Shopping organization**, working on the **backend infrastructure that supports the creation and management of customer reviews** for Amazon Marketplace, Kindle, Alexa, FireTV, and more.

Software Development Engineer (Promoted to SDE II in Oct 2024)   **Sep 2022 — Mar 2025**
Amazon Web Services   *Berlin, Germany*

- Initially worked on the **Issues team for AWS CodeCatalyst**. Mainly worked on **PartyRock**, an **LLM-powered tool that allows users to build AI-generated apps** by providing a simple prompt.
- Part of the initial team that started PartyRock from scratch and released it to production, growing the customer base, while mainly focusing on **backend, infrastructure, and Ops tasks**.
- **Designed and implemented a scalable log exporting pipeline solution** using the ETL pattern that automatically exports and processes logs from various sources, allowing the data to be visualized in platforms like AWS Athena and QuickSight. It has **processed millions of logs** since its deployment and has enabled product managers and engineers in the team to visualize metrics related to feature use and user retention, and to make important data-driven decisions.
- **Led several projects and developed end-to-end features**, from design and implementation to testing and metrics. Some projects include: implementing user deletion and preventing fraudulent accounts from re-registering; supporting text file uploads; refactoring and migrating our LLM communication layer to support new models and use the Amazon Bedrock Converse API, among others.
- **Onboarded and mentored several new joiners**, becoming their main point of contact during their initial time in the company.

Software Engineer Intern   **Jun 2021 — Sep 2021**
Amazon Web Services   *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 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.

Research Assistant - "Big Data For Energy"   **Fev 2020 — May 2021**
INESC TEC   *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:** Python, Django, Pandas, Apache Cassandra, RabbitMQ, Celery, Nginx, Vue.js, Docker, GitLab CI/CD.

Teaching Assistant   **Fev 2020 — May 2021**
Faculty of Engineering of the University of Porto (FEUP)   *Porto, Portugal*

- Assisted the professors during the practical classes of **IART - Artificial Intelligence**, by helping students regarding Search and Optimization algorithms, Knowledge Engineering, Natural Language Processing, and Machine Learning.

Software Engineer Intern   **Jul 2020 — 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, and an automatic encryption/decryption system for smart meter data with Java, SSL, and XML documents.

EDUCATION

[Faculty of Engineering of the University of Porto (FEUP)](#)   **Sep 2017 — Jul 2022**
Integrated Masters (BSc + MSc) in Informatics and Computing Engineering   *Porto, Portugal*

- Final cumulative GPA: 18/20.
- **Relevant coursework:** Systems Architecture, Distributed Systems, Web App Development, Algorithms & Data Structures, Artificial Intelligence.
- Received **Merit Scholarships in the 2018/19 and 2019/20 Academic Years**, given to the best students in Portugal.
- Part of the [**Informatics Engineering Student Branch**](#), where I organized and led several projects, workshops and events.
- Studied abroad for one semester, through the ERASMUS program, at [**Aalto University**](#), in Espoo, Finland.

PROJECTS

Labcentric - Monitoring and Management System for Laboratories   **Oct 2020 — Jun 2021**

- **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.
- **Main technologies:** Laravel (PHP), HTML/CSS/JS, PostgreSQL, Python, MQTT, Node.js, Raspberry Pi, Docker, Nginx, Heroku.

SKILLS

- **Fields:** Backend Engineering, Full Stack Engineering, Systems Architecture, Cloud Computing and Architecture (AWS), AI Engineering (LLMs and ML models), DevOps.
- **Technologies**: Typescript, Node.js, React, Java, Python, AWS, SQL (Postgres, SQLite), NoSQL (DynamoDB, Apache Cassandra), Docker, C, C++, UNIX.