

Rui Alves

Computer Engineering MSc Student - Faculty of Engineering of UP

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Software development and architecture enthusiast. Keen on competitive programming. Passionate about teaching and learning new things. DevOps padawan.

EXPERIENCE

Fraunhofer Portugal

DevOps and Software Engineering Intern

Porto, Portugal

June 2020 - August 2020

- Designed and automated deployment architecture of the internal project and personnel management platform.
- Responsible for DevOps activities, such as configuring CI/CD, preparing the project for multiple environments, orchestrating service containers and managing cloud testing, staging and deployment machines.
- The main difficulty was to ensure the robustness and future scalability of the designed deployment architecture.
- Ruby on Rails, Nginx, MySQL, Docker Docker-compose, Jenkins.

Fractal

Full-Stack Software Engineering Intern

Porto, Portugal

July 2019 - September 2019

- Took part in the development of an OAuth platform (Log in with Fractal ID) with KYC/AML regulation.
- Responsible mostly for Backend development, configuring mailer services, improving test suites and DevOps tasks such as Docker and CI tools configuration. At the Frontend level, refactored several components.
- The main difficulty was to quickly adapt to a completely new technology stack while having to understand a very complex OAuth platform architecture with high security standards.
- Ruby on Rails, ReactJS, Redux, Docker, CI tools configuration.

Fraunhofer Portugal

Full-Stack Software Engineering Intern

Porto, Portugal

July 2018 - September 2018

- Developed a web app video player component that allows video streaming, manipulation and live annotation.
- Responsible for investigating different implementation options, implementing a Backend API that supports video streaming and annotation and integrating it the aforementioned video component.
- The main difficulty was to deal with the many constraints imposed by the video player framework used, which was overcome by implementing a set of custom plugins.
- Java Springboot, Jersey, Morphia, ReactJS, MobX and VideoJS.

EDUCATION

Faculty of Engineering - University of Porto

Integrated Master's Degree in Computer Engineering

Porto, Portugal

2016 - Present

Current Grade: 18.85/20

PROJECTS

FishTank - Fish Market operations management App

March 2020 - June 2020

9 People

- Team Leader of a Scrum-like team in the development of a web app project to optimize portuguese fish market operations management, with real time activity communication and transaction data analysis. Developed for *SONAE MC* with a team featuring software engineers, multimedia designers and marketing personnel.
- The main difficulties were, on the technical side, ensuring real time data coherence among multiple parties and, on the management side, leading people with different backgrounds and expertise.
- Phoenix Elixir, PostgreSQL, ReactJS, Redux, Docker Docker-compose, Heroku, Netlify.

Chess Club Website

December 2018 - present

1 Person

- Web Application for a Chess Club, presenting articles, archive collection items and tournaments/players information, featuring a back-office for information management for club the administration.
- The main difficulties were making progress while working on many University assignments and being responsible for the Full Stack process, having to learn many new concepts regarding infrastructure configuration and deployment, which were overcome by executing small PoCs and thorough investigation.
- MeteorJS, ApolloJS Server & Client, GraphQL, MongoDB (Atlas), ReactJS, Bootstrap, AWS Services.