

Gonçalo Marantes

INFORMATICS AND COMPUTING ENGINEER

Gondomar, Porto

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Summary

Recently finished the masters degree in Informatics and Computing Engineering at the Faculty of Engineering of the University of Porto. Passionate about open-source, containerization, CI/CD, software development methodologies, project management, database technologies and web development.

Education

Faculty of Engineering of the University of Porto

R. Dr. Roberto Frias, 4200-465 Porto

BACHELOR'S & MASTER'S DEGREE IN INFORMATICS AND COMPUTING ENGINEERING

Sep. 2017 - Jul. 2022

- Dissertation: A framework to support the deployment of circular economy ecosystems
- Software Engineering
- Requirements Engineering
- Database Technologies
- Project Management
- Software Testing

Experience

INESC TEC

Porto

RESEARCH ASSISTANT

Nov. 2021 - Aug. 2022

- Developed my master's dissertation which includes a requirements engineering and design framework for circular economy ecosystems
- Took part in the H2020 European innovation project CircThread (<https://cordis.europa.eu/project/id/958448>)
- Studies the literature on Industrial Digital Platforms and Ecosystems, Circular Economy and Innovation Ecosystems
- Interviewed European industrial organizations related with home appliances and energy systems life cycle to elicit organizational and technological requirements
- Wrote industrial scenarios for stakeholder discussion, validation and vision alignment
- Created a tool to test ecosystem dynamics and informational dependencies between multiple actors of the product life cycle
- Built businesses process with BPMN to formalize platform experience integration with current industrial processes and work systems

ZeroZero

Vila Nova de Gaia

SOFTWARE DEVELOPER

Jun. 2021 - Sep. 2021

- Developed Project: Orwell, a web service to aid in the identification and categorization of website visitors. Extracts information from web requests, such as IP address, location, page visits, etc.
- Designed the web application interface with the help of Figma and Affinity Design. Built the entire page layout, components and interactions
- Developed the web interface using React, Bulma and SCSS; external and internal APIs with NodeJS, ExpressJS and KnexJS; database using PostgreSQL and PL/pgSQL; cache using Redis and server configuration with Traefik
- Developed server unit tests with Jest and Supertest
- Containerized the whole service with Docker and Docker Compose, compatible with different environments
- Configured ZeroZero's internal GitLab instance with GitLab runners and CI/CD configuration
- Configured automatic project deployment to virtual private server

SPeCS Associate Laboratory

FEUP

SUMMER INTERN

Jul. 2020 - Sep. 2020

- Worked at SPeCS Research Group (Special-Purpose Computing Systems, languages and tools) under Professor Nuno Paulino and Professor João Bispo
- Designed and developed a web application using VueJS to showcase the Binary Translation Framework, an internal project developed by Professor Nuno Paulino

Projects

Glass Base (<https://github.com/Marantesss/glass-base>)

PERSONAL

2021

- Developed a web dashboard and REST API to visualize data from the Portuguese government public contract platform (<https://www.base.gov.pt/base4>). This application stores, serves and presents data in a more user friendly way, with metrics, charts and table
- Designed the dashboard with Figma. Developed the dashboard with NuxtJS and TailwindCSS, server development was done in NodeJS, ExpressJS and KnexJS, relational database was developed in PostgreSQL

Extracurricular Activity

IEEE University of Porto Student Branch

CORE MEMBER & VICE-CHAIRMAN ON 2019

- Helped organize events (RetroJam 2019, REC 2020) and workshops (C++, Git)
- Contributed to the development of the student branch's website (<https://ieee.fe.up.pt/>)
- Designed various branding materials

Porto, Portugal

Nov. 2017 - Present

Licenses & Certifications

2017 **Certificate of Proficiency in English**, University of Cambridge

Porto, Portugal

2017 **B Driver's License**, IMT

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