

# Gonçalo Marantes

INFORMATICS AND COMPUTING ENGINEER

Gondomar, Porto

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## Summary

Frontend developer with a Master's degree in Informatics and Computing Engineering from the Faculty of Engineering of the University of Porto. Working mostly with Vue and Typescript. Advocate of functional programming. 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

### Infraspeak

Porto

FRONTEND DEVELOPER

Sep. 2022 - Present

- Using VueJS with Typescript and SCSS to contribute to Infraspeak's web client
- Tinkering with PHP, Laravel and PHPUnit to contribute to Infraspeak's web API
- Working in an agile team employing the SCRUM methodology
- Using Git and Gitlab as version control systems and Jira as issue tracker and planner applications
- Designing, developing, testing and open-sourcing the d20 transpiler to batch migrate the Infraspeak client codebase from the deprecated Vue Class-based syntax to the Options API Syntax to aid in Vue 3 migration
- Invited speaker at [Portugal.vue](https://portugal.vue)

### 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://h2020-europe-innovation-projects.com/project/circThread)
- 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

## 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://dados.gov.pt). 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

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### IEEE University of Porto Student Branch

*Porto, Portugal*

CORE MEMBER & VICE-CHAIRMAN ON 2019

*Nov. 2017 - Dec.2022*

- Helped organize events (RetroJam 2019, REC 2020) and workshops (C++, Git)
- Contributed to the development of the student branch's website
- Designed multiple branding materials

## Licenses & Certifications

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

*Porto, Portugal*

2017    **B Driver's License**, IMT

*Porto, Portugal*