

# Gonçalo Marantes

SOFTWARE ENGINEER

Porto, Portugal

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## Summary

Software Engineer with 2 years experience in web development working at small and medium-sized enterprises, holding Master's degree in Computer Science from the University of Porto. Working mostly with web technologies. Advocate of functional programming. Passionate about open-source, software architecture, containerization, CI/CD, software development methodologies, project management, database technologies and web development.

## Experience

### Intuitivo

Porto, Portugal

SOFTWARE ENGINEER

Aug. 2023 - Jul. 2024

- Used React and JSS to develop to the Intuitivo web platform, alongside ExpressJS and PostgreSQL for API development
- Developed a native desktop version of the App with anti-cheat features using ElectronJS
- Designed and implemented a performance test suite using Locust to stress test the platform for Portugal's national exams with around 200k concurrent users
- Implemented an in-memory database solution for fast data access using Redis
- Designed, developed, tested and distributed Intuitivo's UI component library using Storybook and GitHub Registry

### Infraspeak

Porto, Portugal

FRONTEND DEVELOPER

Sep. 2022 - Aug. 2023

- Used VueJS with Typescript and SCSS to contribute to Infraspeak's web client
- Tinkered with PHP, Laravel and PHPUnit to contribute to Infraspeak's web API
- Used Git and Gitlab as version control systems and Jira as issue tracker and planner applications
- Designed, developed, tested and open-sourced a [tool](#) 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](#)

### INESC TEC

Porto, Portugal

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
- Published a conference paper entitled [The Design of Digital Platform Ecosystem Supporting Circular Economy](#) in the Collaborative Networks in Digitalization and Society 5.0 2023 Conference
- Interviewed European industrial organizations related with home appliances and energy systems life cycle to elicit organizational and technological requirements
- Created a tool to test ecosystem dynamics and informational dependencies between multiple actors of the product life cycle, which was validated by the project's stakeholder

### ZeroZero

Vila Nova de Gaia, Portugal

SOFTWARE DEVELOPER INTERN

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 UI using 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

## Projects

### Vue Class Decorators to Options API Transpiler

DEVELOPER

2023

- CLI tool to batch migrate Vue Single File Components using a class-based syntax with [vue-property-decorators](#) package, to Options API syntax
- Wrote a [blog post](#) about the technical implementation and architectural decisions behind this tool

### Glass Base

DEVELOPER

2021

- Developed a web dashboard and REST API to visualize data from the [Portuguese government public contract platform](#). 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

## 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](#)
- Designed multiple branding materials

*Porto, Portugal*

*Nov. 2017 - Dec.2022*

## Education

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### University of Porto

BACHELOR'S & MASTER'S DEGREE IN COMPUTER SCIENCE

Master's Dissertation: [\*A framework to support the deployment of circular economy ecosystems\*](#)

*Porto, Portugal*

*Sep. 2017 - Jul. 2022*