

Francisco Gonçalves

SOFTWARE ENGINEER · MSc IN INFORMATICS AND COMPUTING ENGINEERING · PORTO, PORTUGAL

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Education

Faculty of Engineering of the University of Porto (FEUP)

Sep 2018 - Jul 2023

BACHELOR  AND MASTER  IN INFORMATICS AND COMPUTING ENGINEERING

Porto, Portugal

- Completed both the bachelor and master degrees, finishing the masters' averaging **18/20**
- **Relevant bachelor coursework:** Web App Development, Algorithms and Data Structures, Databases, Artificial Intelligence
- **Relevant master coursework:** Full Stack Development, IOT factory management, AI Assistant Web Navigator, P2P Timeline, Semantic Web App Dev

Skills

Technical

Git 4y • HTML/CSS/JS 3y • NodeJS 3y • ReactJS 3y • TS 2y • Tailwind 2y • Next.js 1.5y • Gatsby.js 1.5y • PHP/Laravel 2y • SQL 2y • Python 3y • Java 3y • C/C++ 3y • Docker 2y • GraphQL 1y • React Native 0.5y • Angular 0.5y • Flutter 0.5y

Languages

Portuguese Native • English Proficient | CAE C1 Level, 2016 • Spanish Intermediate understanding • French Basic understanding

Professional & Other Experiences

Software Engineer Intern

Feb 2023 - Jul 2023

CRITICAL MANUFACTURING  in

Maia, Porto, Portugal

- Interned at Critical Manufacturing as a part of product development team. Work focused on collecting web analytics and **usability metrics** for Critical's Manufacturing Execution System (MES) aiming to improve UI/UX. Dashboard preview **deployed in Vercel**.
- Developed a custom dashboard for usability metrics in Critical MES, offering insights for its components. The dashboard democratizes the UX improvement process by scoring components and highlighting key metrics within them.
- Wrote a dissertation around this project with the title Analytics and Usability Metrics for Single-Page Applications, **available here**

Freelance Web Developer

Jan 2023 - Aug 2023

GUERNER & IRMÃOS S.A. 

Gaia, Porto, Portugal

- Created a marketing and display website for Guerner & Irmãos, offering high-performance textiles, technical fabrics, and quality building materials.
- Website built with React.js, Typescript, Tailwind, Gatsby.js, MDX and GraphQL.

Erasmus Student

Aug 2022 - Dec 2022

AALTO UNIVERSITY SCHOOL OF SCIENCE  in

Espoo, Finland

- Studied computer science abroad at Aalto University, in Espoo, Finland as an exchange student part of the Erasmus program

Active Member

Nov 2020 - Jun 2023

NIAEFEP - INFORMATICS ENGINEERING STUDENT BRANCH @ FEUP  in

Porto, Portugal

- Coordinated and heavily contributed to projects like the **University of Porto Time Table Scheduler** and co-organized a variety of events (e.g. **SINF**)

Participant

Jul 2014 - Present

OTHER EXPERIENCES

- Interrail across Europe (24 days), 5 *Camiños de Santiago*, volunteering focused on visiting and helping elderly people

Projects

Bagr.UI — UI Components library for React, Typescript, and TailwindCSS

Jul 2023 - Present

NEXT.JS, REACT, TYPESCRIPT, TAILWINDCSS

Individual

- Developed a website to showcase reusable React TSX components combining purposes and methods from other components libraries.

Finishers Hub — Videoclip gallery and hub of finishing moves

May 2022 - Present

NEXT.JS, REACT.JS, TYPESCRIPT, TAILWINDCSS, EXPRESS, MONGODB, AWS S3, GOOGLE SHEETS API

Individual

- Developed a dynamic museum with video highlights of COD finishing moves. V1 used **Twitch API**. V2 uses **AWS S3 Buckets**. Added registry to track team stats. Lab page for move characteristics enhances analysis. Admin page to control data stored in MongoDB associated with video clips.

TTS — Time Table Selector for UPorto Students

Apr 2022 - Aug 2022

REACT, TYPESCRIPT, TAILWINDCSS, DOCKER, MYSQL

Team of varying active developers

- Developed a platform for students of University of Porto to create, **plan and share timetables** before class registration in a flexible and practical way.

Internet of Everything — “Everything is connected. Not just the devices.”

Oct 2021 - Jan 2022

DOCKER, JAVASCRIPT, JAVA, PYTHON, REACT, TAILWINDCSS

Team of 20 people


- Collaboratively developed a **factory management and maintenance platform** simulator. Used LeSS Agile framework.
- Responsible for frontend development and UI/UX of the platform that helps monitor and manage the system.

Virtual Assistant for Critical Manufacturing's Manufacturing Execution System

Feb 2022 - Jul 2022

TYPESCRIPT, ANGULAR, PYTHON, FLASK, SPACy, DOCKER

Team of 8 people

- Developed a virtual assistant to facilitate navigation and interaction with Critical Manufacturing's Execution System
- Created a 'small startup' and branding around the adopted project: **Robin** 

TechCouncil — Collaborative Q&A Hub for all Tech Related issues

Feb 2021 - Jun 2021

PHP, LARAVEL, JAVASCRIPT, HTML, BOOTSTRAP5, CSS, POSTGRESQL, DOCKER

Team of 4 people

- Developed a web app for tech-related questions, utilizing planning, specifications, mockups, database design, and full-stack development.

Full portfolio available on my website 