

# Tiago Rodrigues

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## Summary

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Software Engineer interested in Full-Stack Web Development, and an AI and ML enthusiast. Keen on maintainable software development and an ever-curious learner.

## Experience


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### Freelance Developer

*Remote*

*Aurelius*

*Aug 2024 - Present*


- Designed and developed a full-stack auction platform for antiques, including a real-time bidding system, session management, admin dashboard, and Stripe integration for payment processing
- Independently managed all phases of the project, from initial architecture design to final deployment.
- Tech Stack: SvelteKit with Typescript, TailwindCSS (shadcn-svelte), Lucia (Auth), Stripe, Neon Postgres (with Drizzle), SST (AWS deployments), Figma (Design) | [Source Code](#) 

### Research Assistant

*Porto, Portugal*

*INESCTEC*

*Sep 2023 – Jul 2024*

- Investigated discharge summary generation from notes written in the course of hospital admissions using state-of-the-art proprietary and open-source LLMs, resulting in 85.09% BERTScore similarity with original documents
- Extensively evaluated results using exact-match, soft-overlap, and reference-free metrics (ROUGE, BLEU, TTR, BERTScore, BLEURT, BLANC, SummaC)
- Worked in collaboration with a clinical expert to perform a qualitative evaluation of the results using pre-established criteria
- Tech Stack: Python, Pytorch, Huggingface | [Source Code](#) 

### Software Engineer Intern

*Barcelos, Portugal*

*Websystems*

*Jun 2021 – Aug 2021*

- Enhanced existing admin dashboard by adding 5 new resource managers with full CRUD capabilities, designing the database from scratch
- Built UI to easily retrieve key information on over 20 clients and respective resources
- Tech Stack: C# with .NET Framework, Microsoft SQL Server, HTML, jQuery, Bootstrap

## Education

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### Faculty of Engineering of the University of Porto

*Sep 2022 – Jul 2024*

*MSc in Informatics and Computer Engineering*

### University of Twente

*Sep 2023 – Feb 2024*

*MSc in Computer Science*

- ERASMUS+ Programme

### Faculty of Engineering of the University of Porto

*Sep 2022 – Jul 2024*

*BSc in Informatics and Computer Engineering*

## Publications

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Rodrigues, Tiago and Lopes, Carla Teixeira (2024). "Harnessing Large Language Models for Clinical Information Extraction: A Systematic Literature Review". In: *ACM Transaction on Computing for Healthcare*. Awaiting revision.

## Projects

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### Personal Portfolio

[Source Code](#) 

- Designed a personal portfolio website to learn about web technologies and static site generation
- Improved online presence and created a place to aggregate all projects and updates
- Tech Stack: Figma, Astro, Tailwind

### MadeiraView: Interactive Map of Madeira

[Source Code](#) 

- Designed an interactive map of Madeira for tourism purposes as part of an initiative by [InfoPortugal](#) 
- Assumed the role of Scrum Master in a startup of 9 people, overseeing task management and distribution
- Responsible for developing a map MVP and event generator for the back-office
- Tech Stack: Typescript, Three.js, SvelteKit

### Hospital Scheduler

- Developed a hospital shift scheduler as a solution requested by a local hospital, working under a fully Agile process
- Served as Scrum Master for a sub-team of 6, part of a group of 24 contributors. Handled extensive project documentation and ensured effective communication to coordinate tasks with other teams
- Designed email notification sender and wrote comprehensive tests to ensure the correctness of the features
- Tech Stack: Django, React, Google OR-Tools

### Distributed Key-Value Store

[Source Code](#) 

- Built a Distributed and Partitioned Key-Value store and a set of scripts to interact with the system
- Tech Stack: Java

### KISS: Keep It a Simple Site

[Source Code](#) 

- Developed a CMS for people with low computer literacy, leveraging Google Sheets for simple information storage
- Managed a team of 4 in developing a proposed solution. Responsible for entire website development and CMS connection
- Tech Stack: Vue, Tailwind, TypeScript, Google Sheets

### Bacefook: a Facebook Clone

[Source Code](#) 

- Created a social network clone of Facebook, with full CRUD functionality, in an agile methodology
- Interacted with the full development cycle, including user stories, mock-up design in Figma, database design with UML, and both back-end and front-end code
- Tech Stack: Laravel, Bootstrap, PostgreSQL, Figma

## Skills

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**Proficient In:** Javascript/Typescript, HTML, CSS, Python, Java, C/C++, SQL

**Explored:** Go, C#, PHP, Rust, Lua

**Web Frameworks:** Svelte, SvelteKit, React, Vue, Nest, Tailwind, .NET, Laravel

**AI Framework:** Pytorch, Huggingface, Scikit Learn, Pandas, Numpy, Seaborn

**Languages:** Portuguese (Native), English (Full Professional Proficiency - C2)