

# TIAGO RODRIGUES

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## Education

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### Faculty of Engineering of the University of Porto

September 2022 - July 2024

*Masters in Informatics and Computer Engineering*

### University of Twente

September 2023 - February 2024

*ERASMUS+ Programme*

### Faculty of Engineering of the University of Porto

September 2019 - July 2022

*Bachelors in Informatics and Computer Engineering*

## Work Experience

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### INESCTEC

September 2023 - July 2024

*Research Assistant*

*Porto, Portugal*

- Investigated discharge summary generation from notes written in the course of hospital admissions using state-of-the-art LLMs, resulting in 85.09% BERTScore similarity with original documents
- Authored a Systematic Literature Review titled "Harnessing Large Language Models for Clinical Information Extraction: A Systematic Literature Review", submitted to the ACM Transaction on Computing for Healthcare
- Tech Stack: Python, Pytorch, Huggingface | [Source Code](#)

### Websystems

November 2021 - January 2022

*Backend Engineer Intern*

*Barcelos, Portugal*

- 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

## Projects

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### Personal Website

- 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 | [Source Code](#)

### MadeiraView: Interactive Map of Madeira

- 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 | [Source Code](#)

### 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

### KISS: Keep It a Simple Site

- 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
- Tech Stack: Vue, Tailwind, TypeScript, Google Sheets | [Source Code](#)

### Bacefook: a Facebook Clone

- 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 | [Source Code](#)

## Technical 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 Frameworks:** Pytorch, Huggingface, Scikit Learn, Pandas, Numpy, Seaborn

**Developer Tools:** Linux, Neovim, VS Code, Git, GitHub