Rafael Monteiro
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Personal Profile

I am a software engineer graduate and I'm looking to introduce myself in the industry. I am someone who likes to learn, a fast learner and I often watch youtube videos, read documentation and build projects to gain some experience.

Education

Polytechnic Institute of Viana do Castelo *Viana do Castelo, Portugal*
Computer Engineering *Sept 2020 - Jul 2024*

Work Experience

CITIN *Viana do Castelo, Portugal*
Curricular Internship *Feb 2024 - Jul 2024*
- Collaborated with a two-person team to develop an application that allowed users to retrieve specific information from invoices to a json format.
- Automated and optimised the process of extracting information to further use it in other tasks.
- **Technical Skills:** Python , Pytesseract, Langchain, Streamlit, Docker, Cv2 and Git.
- **Soft Skills:** Teamwork, Time Management, Communication, Presentation skills.

Polytechnic Institute of Viana do Castelo *Viana do Castelo, Portugal*
Curricular Internship *Sep 2023 - Feb 2024*
- Collaborated with a two-person team to develop an application that allowed high school students to calculate their GPA for university applications.
- Users can also input grades from specific years and simulate what grades they would need in certain subjects to achieve their GPA goal.
- **Technical Skills:** Javascript , ExpressJS, Mongodb, React Native, NodeJS, Postman and Git.
- **Soft Skills:** Teamwork, Time Management, Communication, Presentation skills.

Projects

SpringBoot Web API and App

- Developed an app and a website. For the website, created a web API for the backend using SpringBoot, and a frontend using React. Data was stored in a local PostgreSQL database. The app was developed using Java and SceneBuilder for the UI.
- Languages and tools used: Java, SpringBoot, PostgreSQL, SceneBuilder, and React.

Systems Integration

- Developed an ETL pipeline to extract data from CSV, transform it into XML, and load it into PostgreSQL using Python.
- Implemented a file watcher, task queuing with RabbitMQ using Golang
- Also developed API's in Flask and NestJS and integrated an external API.
- Integrated gRPC for XPath queries and React frontends with Leaflet.js for location data visualization.
- Languages and tools used: Python, Golang, PostgreSQL, NestJS, Prisma, Flask, GraphQL, gRPC, RabbitMQ, Docker, React, and Leaflet.js.

.NET REST API

- Developed a REST API for the backend and stored data in a local database using SQLite.
- Created a frontend using Blazor.
- Languages and tools used: CS, .NET Core 7, Entity Framework, SQLite, and Blazor.

Skills

Programming	Python, Java, C, HTML, CSS, SQL, CS, Golang, Javascript, React.
Miscellaneous	Shell (Bash), LaTeX (Overleaf), Trello, Git.
Soft Skills	Teamwork, Initiative, Decision-making, Critical thinking, Adaptability, Problem-solving

Languages

English	Professional proficiency
Portuguese	Native proficiency