Manuel Martins

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Work Experience

InnoWave   July 2024 – Sep. 2024
Software Engineer Intern   *Lisbon, Portugal*
- Contributed to the Intelligent Document Reader (IDR) project, integrating **GPT-4 API** to automate document processing, increasing document processing speed by **85%** and enabling efficient handling of invoices and expenses.
- Implemented frontend features using **React**, **Next.js**, **TypeScript**, and **Tailwind CSS** to improve user experience and streamline the document management interface.
- Worked on the backend with **Node.js**, **FastAPI**, and **Azure** to extend document parsing capabilities and implement new features for automated classification and extraction of financial documents.

Vodafone   July 2023 – Sep. 2023
Software Engineer Intern   *Lisbon, Portugal*
- Developed automated data processing scripts in **Python** and **Microsoft Power BI** as part of the ND Mobile Deployment team, identifying delays and cost-saving opportunities through real-time dashboards, significantly reducing the time required to analyze cell tower-related data from extensive datasets.
- Collaborated with other engineering teams to streamline data integration into a centralized reporting system, enhancing project monitoring and aiding in the swift transition to 5G infrastructure in Vodafone Portugal's network.

Education

Instituto Superior Técnico (IST), University of Lisbon   2022 – 2025 (expected)
Bachelor's Degree in Computer Science and Engineering   *Lisbon, Portugal*
- Curriculum with a major focus on Algorithms & Data Structures, Artificial Intelligence, Databases, OOP, Machine Learning, Networks, Compilers, and Distributed Systems.
- Languages: Java, Python, C, C++, JavaScript, Rust, R

Projects

Spreadsheet Manipulation Tool | *Java*   Apr. 2024
- Developed a Java-based spreadsheet tool with dynamic cell referencing and advanced formula support, replicating core Excel functionalities for complex data analysis.
- Engineered key components like the parsing engine and formula processor, demonstrating expertise in Java, data structures, and algorithm optimization.

Path Management System | *C*   Apr. 2024
- Created a Path Management System in C with stop-and-connection support, enabling efficient route creation, modification, and management for optimized transportation planning using data structures and algorithms.

Technical Skills

Languages: Java, Python, C, C++, C#, SQL, JavaScript, TypeScript, HTML/CSS
Frameworks: Next.js, React.js, Tailwind CSS, FastAPI
Developer Tools: Git, Docker, VS Code, IntelliJ, Figma
Technologies: Node.js, GPT-4 API, Azure DevOps, Microsoft Power BI