Afonso Manata

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EDUCATION

Instituto Superior Técnico   **Lisboa, Portugal**

Bachelor's degree, Computer Science and Engineering   *Expected Graduation, June 2027*
- o **Related Coursework:** Algorithms and Data Structures, Networks, Operating systems, Artificial Intelligence, Software engineering, Systems Modeling.

EXPERIENCE

Coursera   **Remote**

IBM Full-Stack Javascript Developer Professional Certificate **(174 hours)**   *Nov 2024 - Feb 2025*
- Used **React.js** to create the front end of a "Paradise Nursery" shopping application.
- Wrote a server-side application that stores, retrieves, and manages book ratings and reviews using **Node.js** and **Express** framework.
- Developed secure **RESTful APIs** using **Node.js** and **Express** to communicate with databases.
- Created and deployed **microservices** using **Docker** containers and **serverless**.

University of Coimbra   **Coimbra, Portugal**

Participant of Talento@DEI   *Nov 2023 - July 2024*
- Solved **20+** exercises and acquired knowledge in topics such as **Internet of Things** and **Artificial Intelligence**.
- Implemented a **Python** program that allowed us to drive a **Tello SDK** drone through a challenging route while the drone was being controlled by the contraction and the relaxation of our partner's muscles as a final project.

University of Coimbra   **Coimbra, Portugal**

Summer University in Engineering and Data Science   *July 2023*
- Identified key wine features that influence customer satisfaction using **Data Analytics** and libraries like **Pandas** and **Numpy** on a dataset with 130+ entries.
- Used a dataset with **17 000+** entries to make the prediction of the temperature using **Linear Regression**.

Afterschool by Treetree2   **Remote**

Programming Course   *July 2023*
- Engaged in my first programming experience, coding **40+** exercises and developing games, Tic-Tac-Toe, using **Python**.
- Developed problem-solving skills and logical thinking through hands-on **coding challenges**.

PERSONAL PROJECTS

GPTSolver
- Used **Node.js** to develop an automation tool that extracts text from screenshots using **Tesseract.js** and the **OpenAI API** for generating AI-powered responses.
- Integrated **Clipboardy**, **Dotenv**, and **Filesystem Operations** to manage environment variables, monitor the screenshot folder, and automate the entire workflow, enhancing productivity for users.

House Price Prediction in Lisbon
- Used a dataset with **240+** entries from kaggle.
- Built a machine learning model using **scikit-learn** linear regression model and trained it using the fit function achieving a prediction accuracy of **70.3 %**

Portfolio Website
- Built this site using **Html, CSS, Javascript** and **Three.js** for the **3D** background, applied the best practices to enhance performance, usability, and user experience.

EXTRA CURRICULAR

Football Player   *Sep 2012 - Jun 2024*
- Enhanced my **leadership** skills, especially in steering and inspiring the team through challenging moments, while always being one of the **captains** of these teams.

TECHNICAL SKILLS

Languages: Python, JavaScript, SQL, NoSQL, C, Prolog, HTML/CSS.
Frameworks: React.js, Node.js/Express, MongoDB.
Developer Tools: Git, Neovim, VSCode, Postman.