Afonso Manata

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EDUCATION

Instituto Superior Técnico   **Lisboa, Portugal**
Bachelor's degree, Computer Science and Engineering   *Expected Graduation, June 2027*
- o **Concentrations:** Development, Management and Maintenance of Software, seeking to Develop increasingly faster and more complete solutions.
- o **Related Coursework:** Programming, Networks, Operating systems, Human-machine interaction, Artificial Intelligence, Computer graphics, Software engineering, Algorithms and Data structures, Systems Modeling.

EXPERIENCE

Coursera   **Remote**
*IBM Full-Stack Javascript Developer Professional Certificate (**174 hours**)*   *25 Nov 2024 - 14 Feb 2025*
- Developed 36+ practical exercises and 12 final projects using new technologies.
- 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.
- Enhanced application functionality using tools and techniques, store, manage, and perform basic data operations using **MongoDB** and **CRUD** operations.
- Developed secure **RESTful APIs** using **Node** and **Express** to communicate with databases.
- Created, and deployed **microservices** using **Docker** containers and **serverless** technologies like IBM Code Engine.
- Technologies: HTML, CSS, GitHub, JavaScript, Node.js, Express, React, DevOps, Containers, Docker, Kubernetes, NoSQL databases, Microservices, MongoDB, Serverless computing.

University of Coimbra   **Coimbra, Portugal**
Participant of Talento@DEI in the Computer Challenges Course   *29 Nov 2023 - 13 July 2024*
- Main Topics of the course: Internet of Things, Programming Challenges, Multimedia, Data analysis 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, applying all the topics of the course in this final Project.
- Technologies: Tello SDK, Python, Jupyter Notebooks.

University of Coimbra   **Coimbra, Portugal**
Summer University in Engineering and Data Science   *21 July 2023 - 26 July 2023*
- Acquired basic knowledge about the various stages of data analysis to support decision-making, from data collection and cleaning, to the extraction of relevant information, forecasting models and their respective validation.
- Identified the most impactful features of the wine measured by the satisfaction of the customer using **Data Analytics** and libraries like **Pandas** and **Numpy** on a dataset with 130 entries.
- Used a Data Set with 17 000+ entries to make the prediction of the temperature using **Linear Regression**.
- Technologies: Python, Jupyter Notebooks, Pandas library, Numpy.

Activities and Leadership

Ançã Futebol Clube and Febres Sport Clube   **Coimbra, Portugal**
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, Prolog, C, SQL, JavaScript, HTML/CSS.
Frameworks: React, Node.js/Express, MongoDB, PostgreSQL.
Developer Tools: VSCode, Jupyter Notebooks, Anaconda, Replit, Pygame, Git, GitHub.
Libraries: Numpy, Pandas, Pygame.