# Leonardo Colaço

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Portfolio Web Page

in LinkedIn

GitHub Profile

### Education

## **Eastern Mediterranean University**

Mar 2021 - Expected Feb 2025

Famagusta, Cyprus

Bachelor of Engineering in Computer Engineering

• Relevant Coursework: Data Science, Machine Learning, Software Engineering, Client/Server Programming, Data Structures and Algorithms, Database Management Systems, Security of Computer Systems and Networks

#### Skills

Languages: Python, Javascript, Rust, Java, C, HTML and CSS, SQL

Technologies: Git, .NET, React.js, React Native, Expo Go, MongoDB, Express js, Node.js, Linux, Adobe Xd, Figma

Concepts: Frontend Programming, Backend Programming, APIs, Database Management, Systems Programming, System

Design, Frameworks, Web Development, Network Security

Spoken Languages: English (Native), Portuguese (Native), German, Turkish

## Experience

# Next Thing Consulting, Lda

July 2024 - Sept 2024

Software Engineer Intern Maputo, Mozambique

- Conducted a thorough study to analyze and improve the workflow of a client logistics company, implementing Robotic Process Automation (RPA) to automate inventory reconciliation and invoice processing, resulting in increased efficiency and reduced manual processes and errors.
- Developed a Warehouse Logistics Management App alongside the RPA, integrated with barcode technology to streamline item registration into and out of the database, reducing use of paper.
- Redesigned the employing company's webpage using React.js, incorporating modern design principles and improving user experience, which was well-received for its visual appeal and functionality.

#### **Projects**

Leo's NyanChat (Fullstack Web App) | Javascript, MongoDB, Express.js, React.js, Node.js, Tailwind CSS, Socket.io

2024

- Developed a messaging web application with the MERN tech stack, socket.io, and daisyUI.
- React.js for frontend Express.js for backend MongoDB as the database Render for app deployment.
- Set up user authentication routes with an Express.is server. The authentication and authorization is handled with JSON Web Tokens. Protected user authentication and message routes with a middleware.
- Real-time messaging was implemented using socket.io, displaying online user status, as well as instant messaging.

#### Image Processor | Python, OpenCV

- Lead Developer in the development of an image processor application in Python for my group's graduation project.
- The capabilities of the image processor are accepting images in several different formats, content-aware image resizing, converting images to grayscale, and cartoonizing an image.
- In order to implement these functions, we make use of a few techniques such as seam carving for content-aware image resizing, image abstraction by structure adaptive filtering, and patch swapping

Warehouse Logistics Management App | Javascript, React Native, Express, Databases, Robotic Process Automation 2024

- Developed an application to streamline warehouse operations by scanning merchandise barcodes, verifying items against a database, and organizing them into "pallets"
- Implemented functionality to name suppliers and save pallet data with item details to the database, including a unique pallet identifier.
- Designed a feature to view and select saved pallets, displaying all associated items for better inventory management.
- Created an API integration to send pallet information to the server as a file, enabling automated invoice document generation.

2024 **Lexical Analyzer** | Python

- Designed a python program that performs lexical analysis.
- It reads in a stream of characters, identifies the lexemes in the stream, and categorizes them into tokens.