

Leonardo Colaço

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Education

Eastern Mediterranean University

Mar 2021 - Expected Feb 2025

Bachelor of Engineering in Computer Engineering

Famagusta, Cyprus

- **Coursework:** Data Science, Machine Learning, Software Engineering, Client/Server Programming, Data Structures and Algorithms, Database Management Systems

Skills

Languages: Python, Javascript, 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, Web Development

Spoken Languages: English (Native), Portuguese (Native), German (A1)

Work 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, designed and implemented systems incorporating Robotic Process Automation (RPA) and a mobile application to improve workflow efficiency.
- Implemented **Robotic Process Automation (RPA)** using UiPath to automate inventory reconciliation and invoice processing. Designed workflows within **UiPath Studio**, leveraging activities like **Data Scraping**, **File Handling**, and **Excel Automation** to extract data from inventory systems, process invoices, automatically log inventory and invoice data into the company's ERP system (Primavera v10).
- Developed a Warehouse Logistics Management App integrated with barcode scanning to register items into and out of the warehouse to the database, which worked with the RPA workflows to automatically update generate documents and update the inventory from an ERP software (Primavera v10). This system streamlined item registration into the database and eliminated paper-based records at the company, **reducing manual data entry tasks by 20%** and **minimizing errors by 15%**.
- Developed functionality to assign suppliers, store pallet data with unique identifiers, and display all associated items for more effective inventory tracking.
- Designed and deployed a REST API for sending pallet data to the server that integrates with UiPath, triggering automatic invoice generation and enabling seamless data flow between systems.
- Also redesigned the company's webpage using React.js, incorporating modern UI/UX principles. The redesign **increased user interaction by 25%**.

Projects

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

2024

- Developed a real-time messaging application using the **MERN stack** and socket.io.
- Set up **secure user authentication and authorization** using JWTs and Express.js middleware.
- Deployed the application using Render for seamless deployment and scalability.

Image Processor | Python, OpenCV

2024

- 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**, **changing the colors of the image**, and **applying a cartoon filter**.
- Techniques used include **seam carving for content-aware resizing** and **structure-adaptive filtering for the cartoon effect**.

Lexical Analyzer | Python

2024

- 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**.

Portfolio Website | Javascript, HTML and CSS, GitHub

2023

- Designed and deployed my **personal portfolio website** to display my projects, resumé, and skills through GitHub Pages.