Leonardo Colaço

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Portfolio Web Page

in LinkedIn

GitHub Profile

Education

Eastern Mediterranean University

Mar 2021 - Expected Feb 2025

Bachelor of Engineering in Computer Engineering

Famagusta, Cyprus

 Relevant Coursework: Artificial Intelligence, High End Embedded Systems, Software Engineering, Client/Server Programming, Computer Architecture, Data Structures and Algorithms, Database Management Systems, Digital Logic Design and Systems, Operating Systems, Computer Networks

Technical Skills

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

Technologies: Git, .NET, React.js, React Native, MongoDB, Express js, Tailwind CSS, Postman, Node.js, Linux, Adobe Xd,

Figma, Photoshop, Sony Vegas

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

Operating Systems, Algorithms, Frameworks, Web Development, Network Security, Penetration Testing

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 Logistics Stock Management application 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.is, 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

Logistics Stock Management | Javascript, React Native, Express.js, Microsoft SQL, and Robotic Process Automation 2024

- Using React Native, I designed a stock management system for receiving merchandise in warehouses, as well as selling the merchandise as a delivery person.
- Users are able to scan goods received as well as sold through their barcodes and very easily keep track of the warehouse stock for their merchandise.
- The server for api requests was made through Express, a Node.js library, and I made use of a database created in Microsoft SQL.

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.

Leo's Pokédex | Javascript, HTML and CSS, RESTful API, JSON

2023

- Designed a web page that fetches stats about a specific Pokémon using PokeAPI.
- The search bar algorithm was designed using Javascript, displaying results for specified pokemon