Leonardo Colaço

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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

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.js server. The authentication and authorization is handled with JSON Web Tokens. Protected user authentication and message routes with a middleware.
- Used a **bcrypt algorithm** to encrypt a new user's password when storing it into the database.
- Real-time messaging was implemented using socket.io, displaying online user status, as well as instant messaging.
- The entire UI design used the daisyUI library from Tailwind CSS.
- Implemented a search algorithm to look up other users and select their conversation.

Leo's Spotifyer | RESTful API, React.js, Node.js, Javascript, HTML and CSS, JSON

2024

- Designed a web app that displays a Spotify user's activity and data after receiving authentication from the user through Spotify's Oauth2.0 authentication flow
- In order to display a user's data I used the API call to receive an access token to use the API, that can then be used in exchange for authorization code. This authorization code is necessary to grant access to the JSON with the user's data (depending on the permitted scope of the data), and is then neatly displayed on the web page.

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 with the objective of displaying results based on the user's currently typed characters.

Team Generator | *Javascript*, *Python*, *HTML and CSS*

2023

- Using Javascript, the program takes a user input to generate name boxes for each member, as well as the desired number of teams.
- The members are randomly assigned to each team through a Javascript algorithm, together with a random color for the team. Same team colors are avoided as well.
- A Python version of the algorithm is also available in my GitHub repository for this project.

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.

Experience

Fedèration International des Femmes des Carrières Juridiques (FIFCJ)

Jan 2016 - Jan 2020

Maputo, Mozambique

Responsible for designing flyers for events of the organization using Photoshop.

Technical Skills

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

Technologies: Git, React.js, MongoDB, Express js, Tailwind CSS, Postman, Node.js, Linux, Adobe Xd, Figma, Photoshop, Sony Vegas

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

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