Leonardo Colaço

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Education

Eastern Mediterranean University   Mar 2021 - Expected Feb 2025
Bachelor of Engineering in Computer Engineering   *Istanbul, Turkey*
- **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 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
- Developed a web page that takes in user input for building a team and assigning the members to each team at random.
- 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.

Painting Program | *Python*   2023
- Developed a painting program in python using the Pygame library, where **a user can click and drag their cursor inside a drawing area to trance ink**.
- This program also enables the user to pick different brush sizes and color for their ink.

Experience

Fedèration International des Femmes des Carrières Juridiques (FIFCJ)   Jan 2016 - Jan 2020
Graphic Design   *Maputo, Mozambique*
- Designed flyers for events the organization using Photoshop.

Technical Skills

Languages: Python, Java, C Language, Javascript, SQL, PHP, HTML and CSS
Technologies: MongoDB, Express js, Linux, React.js, Bootstrap, Node.js, Adobe Xd, Figma, Photoshop, Sony Vegas
Concepts: APIs, Operating Systems, OOP, Algorithms, Frameworks, Web Development, Network Security, Penetration Testing