Luis Otávio Dias da Silva

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Education

Universidade do Estado de Minas Gerais (UEMG)   Minas Gerais, Brasil
Bachelor of Information Systems   *Mar 2024 - Dec 2027 (Expected)*

Courses

- **Backend:** Python 3 Course From Basic to Advanced (Udemy)
- **Frontend:** React Fundamentals (TreinaWeb)
- **Tools & Databases:** Versioning of code with Git and GitHub (DIO), MySQL (Curso em Vídeo)
- **Artificial Intelligence:** Independent Study in Autonomous Agents and LLMs

Projects

Data Extraction Agent (ETL with AI)
Python, LangGraph, LangChain

- Architected an autonomous system for extracting and structuring complex exam data, transforming raw documents (PDFs) into structured question banks (JSON).
- Implemented text chunking strategies and automated image extraction, ensuring data integrity in the final output.
- Optimized the processing pipeline by implementing asynchronous and parallel calls, reducing execution time from 1060 to 360 s (66% improvement).

Study Management Platform
Python, Django, TypeScript, React

- Developed a Full Stack application for customizing study environments, enabling the upload and management of mock tests.
- Implemented a robust file upload and parsing system to automatically populate the question database, optimizing data entry efficiency.
- Designed an interactive interface for question resolution, providing immediate user feedback and realistic exam simulation.

Application Automation Bot
Python, Selenium, Automation

- Designed a terminal-based automation tool to streamline resume submissions, integrating support for HTML email templates and PDF attachments.
- Created search algorithms using Selenium for automatic contact extraction based on keywords, significantly reducing manual research time.
- Structured input data validation to ensure the accuracy of job titles and company names before email dispatch.

Skills

- **Languages & Frameworks:** Python (Django, DRF), JavaScript/TypeScript (React), HTML, CSS.
- **Tools & DevOps:** Docker, Git/GitHub, Linux, SQL, Selenium, LangChain.
- **Databases:** SQL (MySQL, SQLite).
- **Languages:** Portuguese (Native), English (Intermediate - Technical Reading and Writing).