Lucas Sobral de Morais

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SUMMARY

Software Engineer with 3+ years of experience designing and delivering backend and AI-powered solutions that drive operational efficiency and real business value. Specialized in Python, FastAPI, Django, and computer vision (YOLOv8), I've led the development of scalable systems in forestry, logistics, and internal operations. From building geospatial APIs for vehicle routing to deploying language model assistants and automating satellite image analysis, I turn complexity into clean code and actionable results.I bring a strong background in data engineering, RESTful APIs, real-time analytics, and secure authentication. Passionate about impactful engineering, I seek to collaborate with global teams solving meaningful problems through technology.

EXPERIENCE

AI Software Engineer
Eldorado Brasil Celulose S.A   **Oct/2024 - Present**

- Led the development of AI-powered systems for forestry automation, reducing manual effort and increasing precision.
- Built a YOLOv8-based computer vision platform for detecting forestry residues from satellite images.
- Designed a geospatial API to calculate real-time distances between vehicles and rural assets using GPS and shapefiles.
- Developed scalable RESTful APIs with FastAPI for data extraction and operational analytics.
- Integrated LLMs into an AI assistant to automate internal workflows and enhance decision-making.
- Created tools for wood volume estimation, and implemented pipelines to sync data from multiple sources.

Data Engineer & Analyst
Eldorado Brasil Celulose S.A   **Oct/2023 - Oct/2024**
- Built automated ETL pipelines using Python and Pandas, reducing manual data handling by over 60%.
- Created Power BI dashboards for fire control, logistics, and business KPIs.
- Delivered insights by analyzing large datasets to support faster, data-driven decisions across departments.

Full-Stack Software Engineer (Web)
ITONER   **Aug/2019 - Oct/2021**

- Developed a ticketing and scheduling platform using Django REST Framework, React, and Bootstrap.
- Implemented JWT authentication and hash encryption to improve system security.
- Centralized internal demands in a single system, improving customer service and operational efficiency

Software Engineer

Viação São Luiz LTDA   **Mar/2018 - May/2019**

- – Automated data reporting and internal processes using Python, Tkinter, and PostgreSQL.
- – Created local authentication systems and access control tools to improve security protocols.
- – Enhanced data analysis pipelines to support strategic planning and reduce reporting time.

EDUCATION

Postgraduate Degree in Data Analysis
Postgraduate Degree in Project and People Management
Bachelor's Degree in Software Engineering (In progress)
Bachelor's Degree in Systems Analysis and Development

LANGUAGES

English: Upper-intermediate (B2 CEFR) – Professional working proficiency

Portuguese - Native or bilingual proficiency

SKILLS

Python • Django • FastAPI • JavaScript • React • Node.js • Pandas • LangChain • YOLO • Power BI • PostgreSQL • SQL Server • Oracle • Windows Server • API Development • Clean Architecture • Problem Solving