Matheus Elyasha LOPES

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Profile

I am a highly skilled scientific engineer, graduated from CentraleSupélec (France) and the University of Brasília (Brazil). Specialized in creating quality software. I am passionate about new solutions and creating good software that has value for humanity with clean architecture, minimalism, and best practices.

Work Experience

05/2024 – 11/2025
Copenhagen, Denmark

Software Engineer
Prezio

Building the most comprehensive database of electricity prices in Europe.

- Developed front-end and back-end architecture from scratch;
- Implemented modules to establish pricing mechanisms of spot pricing and tariffs in Europe.
- Orchestrated all infrastructure setup on Azure;
- Established and managed a robust Continuous Integration/Continuous Deployment (CI/CD) pipeline, including unit testing, end-to-end tests, and automated testing.
- Implemented integration with Postgis, Leaflet and GIS/mapping technologies

10/2024 – 09/2025
United States

Software Engineer
Everyset

A smart tool for background casting and vouchers.

- Migrated legacy React UI components to storybook;
- Did major node updates in the React applications
- Implemented GitHub actions pipeline for testing;
- Migrated the email provider from Hubspot to Sendgrid which involved the implementation of webhooks;
- Worked on UI fixes in styles, alignment, and positions;
- Created multiple back-end endpoints;
- Multi-voucher support in the platform;
- Multi-state support in the platform.

01/2024 – 10/2024
United States

Software Engineer
BairesDev

Full-stack engineer position at Filterbuy

- Helped with the migration of the legacy frontend code base to React;
- Added new features to their main admin system;
- Redesigned the main shipping APIs with FedEx and UPS;
- Migrated from old Django views to modern REST framework APIs.

05/2023 – 01/2024
United States

Software Engineer
BairesDev

I have worked as a full-stack engineer at Reddit for improving their Ads Revenue Lifecycle.

- Deprecated advertiser level funding;
- Rolled out employee funds 2.0;
- Implemented limit system 2.0 for billing accuracy;
- Implemented credit line application process;
- Implemented consolidated billing page;
- Implemented schedule funding tool;
- Conducted bug fixes and implemented small improvements to the admin interface;

Work Experience

- Collaborated with the Ads Revenue Lifecycle team (Billing).

02/2022 – 12/2023
Curitiba, Paraná, Brazil

Senior Software Engineer
01 Tecnologia da Informação

A comprehensive platform serving the construction industry in Brazil, offering features for various stakeholders. It allows users to request price quotes, apply for jobs, discover suppliers, and connect with highly-rated professionals.

- Developed front-end and back-end architecture from scratch;
- Implemented modules to establish pricing mechanisms and facilitate connections between buyers and suppliers;
- Orchestrated all infrastructure setup on AWS;
- Established and managed a robust Continuous Integration/Continuous Deployment (CI/CD) pipeline, including unit testing, end-to-end tests, and automated testing;
- Led the development team, overseeing task assignments and coordinating all Scrum ceremonies;
- Orchestrated the deployment of the application to Google Play Store and Apple App Store (PWA);
- Integrated the platform seamlessly with Obra Prima, Brazil's largest ERP system for small to medium-sized construction firms;
- Conceptualized and designed the database schema from scratch, accommodating over 150,000 unique companies (as of 2024);
- Successfully processed over 2.2 million BRL in transactions during 2022;
- Managed a high volume of daily quotations and orders, facilitating connections between buyers and suppliers.

05/2021 – 02/2022
Brasília, Federal District, Brazil

Software Engineer
Space AdServer

Techical Lead for the Cartya Business

- Spearheaded the creation of the project, a cutting-edge car rental system facilitating seamless rentals in Brasilia and Goiania;
- Successfully managed a high volume of reservations, including partnerships with major players on the market;
- Developed the payment gateway interface with Vindi, ensuring secure and efficient transactions;
- Engineered the reservation backend for streamlined operations and enhanced user experience;
- Integrated the Serasa credit score system (Java 8) to assess and validate user credit profiles;
- Implemented natural person validation using Brazil government's DataValid service for enhanced security and compliance;
- Facilitated integration with the RDCar system for seamless collaboration with major rental companies;
- Collaborated closely to ensure a seamless user experience and efficient backend operations, prioritizing efficiency, reliability, and customer satisfaction.

02/2020 – 03/2021
Paris, Ile-de-France, France

Data Analyst
BRASA - Brazilian Student Association

I joined BRASA to help people (specifically, those who want to study abroad) realize their dreams and distribute better information (data) in a more understandable way.

07/2020 – 12/2020
Moret-Loing-et-Orvanne, Ile-de-France, France

Software Engineer
EDF

- Transitioned from outdated Python 2 and Java code to modern Python 3 (Django) framework;
- Leveraged Modelica programming language for seamless co-simulations and dynamic thermal simulations;
- Implemented BuildSysPro for cluster-based execution, optimizing scalability and performance;
- Configured and scaled private servers using Docker containers for streamlined

Work Experience

deployment and management;
- Developed an engaging HTML/CSS interface for improved user experience and accessibility;
- Integrated with Nexus Repository Manager, GitLab for version control, and EDF S3 (MinIO) for efficient data storage;
- Utilized Celery for task queue management, PostgreSQL for database management, and supported various OS systems including Ubuntu, Debian, CentOS, and Windows Server;
- Ensured security and compliance standards through PAM Servers and MS IIS on Windows Server;
- Positioned the project at the forefront of building energy management technology, driving innovation and optimization.

07/2019 – 08/2019
Paris Area, France

Engineer Intern
ENERTIME SA

Energy and thermodynamic systems
The study, inventory, and upgrading of the collective tooling system management and database. Defining and setting up individual tools for the technical services and the installation of organic Rankine cycles (ORC), heat pumps and gas trigger turbines.

Education

01/2018 – 12/2021

Diplôme d'ingenieur | Master of Science - MS
CentraleSupelec

Ranked #2 French Engineering School in 2018, Centrale is recognized as one of the most prestigious Grandes Ecoles in France Key courses: Applied Mathematics, Renewable Energy, Corporate Finance, Company Creation, Economics, Sustainable Development, Business Management, Strategy and Marketing, Supply Chain, Information systems, Programming, Networks and security, Energy transition/systems,

01/2016 – 12/2021

Electrical Engineering | Bachelor of Science - BS
Universidade de Brasília

Planned by Darcy Ribeiro, UnB is one of the top universities in Brazil and Latin America. Committed to excellence in the production of knowledge and to the country's international agenda. A privileged location for internationalization.

Key courses: Applied Mathematics, Renewable Energy, Economics, Sustainable Development, Electromagnetism, Energy conversion, Telecommunications systems, Electrical installations, Dynamic systems control, Industrial organization, Power Systems, Materials (Electric and Magnetic)

Languages

English
PROFESSIONAL

French
PROFESSIONAL

Portuguese
PROFESSIONAL

Volunteering

09/2019 – 06/2020

Tech Lead
Latitudes – Exploring Tech for Good

I lead the team charged of the We Are One (WAO) project to create an intranet for the WAO community at CentraleSupélec. Development of a python web application to connect all members of the community by public profiles, enabling the creation of groups and events.