FELIPE ROSA

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PERSONAL PROFILE

Software Developer with a master´s qualification in finance, over ten years of experience from international legal and accounting firms. Fluent in English, French, and Portuguese, I transitioned into IT, and I am expert in designing, developing, and maintaining backend components using Django Rest with SQL database interactions, understanding agile methodologies, Git, Docker, and CI/CD practices. I am looking for the next step in my career, contributing to backend development with a strong passion for building scalable and efficient web applications.

KEY SKILLS

- Creativity, self-learning, problem solving, analytical and critical thinking, results and business-oriented, full stack development, and Leadership

WORK EXPERIENCE

MCS Markup – Brazil, Partner leader for Digital Transformation and Innovation – June 2021 – Present

- **Full Stack Proficiency**: Adept at prototype and design using Figma, developing using Python, JS or C#, and maintaining both frontend using ReactJS and backend components with a focus on Django, Flask and FastAPI to create internal digital transformation web platform.
- **AI Fine Tuning**: Successfully enhanced AI capabilities for private document querying using meta-llama/Llama-2-7b-chat-hf from Hugging Face. Developed and curated synthetic question-and-answer datasets for the training using llama3, and traineed the llama-chat-model employing packages such as PERT, Bitsandbytes, trl.SFTTrainer, and Transformers to optimize model performance and achieve superior query accuracy in sensitive document environments.
- **Development of a Robust RAG System for Legal Text Semantic Search**: Led the creation of a RAG system designed for semantic search of legal text. Scrapped the data from the Brazilian Government website using requests, structuring and processing the data with pandas, regex, and arrays. Implemented Langchain for text segmentation, employed neuralmind/bert-large-portuguese-cased for data vectorization, and applied FAIS and cosine similarity algorithms to semantic search. Integrated llama3 to generate human-readable answers based on top search results, ensuring comprehensive and precise solutions for legal queries.
- **API Development**: Expertise in building and maintaining robust REST APIs with the Django REST and Flask API, for exchanging data, managing database interactions using Django ORM, and working with PostgreSQL databases.
- **Development Lifecycle**: Proficient in participating in all phases of the development lifecycle, from requirements analysis and design to testing, deployment, and support, collaborating with cross-functional teams, including product management and stakeholders, to deliver scalable and efficient solutions while building the SAAS nossotools.com.br
- **DB and Clouding**: I have a diverse skill set encompassing various (Oracle SQL, MySQL, PostgreSQL, MongoDB), Cloud services (AWS services including Compute, S3, API Gateway, Lambda-based development, and backend databases like DynamoDB), and proficiency with prototyping tools such as Figma and Sketch, version control system (Git), containerization (Docker), CI/CD practices, multi-process architecture, microservices, OOP, RabbitMQ, and Celery.
- **Data Intelligence**: Familiarity with data scrapping using Requests, Beautiful Soup, Selenium, and Scrapy; data manipulation using Pandas, NumPy, Matplotlib; and data visualization using PowerBi, Qlik Sense, and Metabase.
- **SDLC & Project Management**: Well-versed in SDLC methodologies such as Agile, Scrum, Kanban, and skilled in project management practices with stakeholders, and related tools such as Trello, Monday, Planner, and Jira. I have extensive experience working with agile teams, breaking down complex technical problems into small, release-able, and user-valuable features.
- **Best Practices and versatility**: Adherence to best practices in coding, security, and web performance optimization, ensuring the delivery of reliable and secure applications. Demonstrated versatility in contributing to a range of projects, from developing Django websites for data analytics to creating an e-commerce aggregator website.
- **Problem Solving and soft skills**: Demonstrating strong problem-solving and analytical skills, I possess the ability to devise pragmatic and cost-effective solutions while maintaining a focus on long-term code maintenance. Fluent in English, French, and Portuguese, I bring a friendly and proactive attitude to work, thriving in collaborative team environments.
- **Main achievements**:

- I was responsible for creating the Innovation and Digital Transformation service line, which focuses on projects with both internal and external clients to leverage technology for building custom automations tailored for accountants and tax experts. After 3 years, I lead a team comprising 1 project manager, 1 product manager, 1 UX designer, 1 data analytics specialist, and 7 developers (frontend, backend, and DEVOPS), resulting in over 130 applications developed and an average annual revenue generation of CAD 350K.
- Using the Django framework in Python for backend development, along with HTML, CSS, and JS for frontend, and hosting on Heroku, I developed the initial version of an internal Digital Transformation Platform, called MCS Tools, . This platform centralizes routine automation applications (RPAs) and API access. Simultaneously, I reported to the company's founding partners and aligned expectations with various stakeholders.
- Using Flask API for backend, ReactJS for frontend, and AWS for hosting, I planned the architecture and led the development of our intranet platform, called Nossa Intranet, for consulting project management. This platform includes features like timesheets, project registration, billing requests, and project margin report generation. Currently, the platform serves 350 users daily, being the primary resource for data-driven decision-making.
- Using Flask API for backend, ReactJS for frontend, and AWS for hosting, I led the creation of a web platform (SAAS), the evolution of MCS Tools, called Nosso Tools, the first digital product of MCS Markup. This platform converts tax files from CSV, PDF, or XML to Excel. I was involved in all stages of the product, from prototyping, MVP validation, coding of key microservices, cloud architecture definitions, testing, production, to digital marketing. In just 4 months, we surpassed 1,000 registrations, with an average usability growth rate of 5% per month.

PwC (PricewaterhouseCoopers) – Brazil, Tax Manager – September 2012 – March 2020
- **Digital Transformation Project**: Instrumental as a member of the development team for Digital Upskilling Brazil, an internal digital transformation project, with a focus on formal learning on new technologies and digital practices, including Tableau, User Experience, and storytelling.
- **Innovation and New Ventures**: A key member of the new ventures and innovation team. My contributions were integral to fostering innovation and driving strategic initiatives within the organization.
- **Tax Audit Management**: Demonstrated success in managing other tax auditors and professionals overseeing tax accounting audits within client establishments. I have prepared detailed reports on tax audit findings and provided recommendations to enhance tax accounting and management practices.
- **Experience with international clients**: Portfolio management providing advisor (85%) and compliance (15%) services to large groups with Canada, USA, Australia, UK, Japan, Brazil, and China parent and their overseas subsidiaries.
- **Main achievements**:
  - I participated in the exploration, definition, and development (mock-up in Figma) of a B2B application that connects companies interested in buying and selling tax credits. I presented the product project to the corporate level, demonstrating development costs and market projections.
  - Using Python, I developed a script to organize PDF files into folders, reducing the estimated project completion time from 3 months to 2 days.

EDUCATION
Diploma Software Engineering Technology focused on Artificial Intelligence
Centennial College – Toronto, ON – Canada
September 2023 – December 2025

Master's degree in finance and management control (with distinction)
Fipecafi College – São Paulo, SP – Brazil
July 2017 – June 2019

Bachelor of Science: Accounting
Fipecafi College – São Paulo, SP – Brazil
July 2015 – June 2017

Bachelor of Law (with distinction)
Pontifical Catholic University – São Paulo, SP – Brazil
January 2010 – December 2014

INTERESTS & HOBBIES
- I am passionate about traveling and exploring new cultures. I enjoy hiking, mountaineering, and trekking.
- I am passionate about learning and curious about various areas, such as gastronomy, astronomy, oceanography, engineering, architecture, design, marketing, psychology, and cinema.