

LUIZ EDUARDO XIMENES

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Brasileiro

SOFTWARE ENGINEER

SUMMARY OF QUALIFICATIONS

Professional with over 8 years of experience in Software Engineering, Systems Architecture, and Data Engineering, working on the development of SaaS platforms, government systems, IoT solutions, data-driven applications, and Artificial Intelligence products. Solid experience in highly complex technical environments, contributing to projects in government, healthcare, agribusiness, tax analysis, and digital transformation sectors. Advanced English proficiency and international experience through an academic exchange program in Australia.

Strong expertise in Ruby on Rails, PostgreSQL, Redis, Docker, REST APIs, CI/CD, OCR, NLP, Machine Learning, scalable architecture, and distributed systems. Relevant experience in technical leadership, architecture design, engineering process structuring, systems integration, and development of solutions focused on high performance, scalability, and reliability. Working with:

- ✓ Scalable systems architecture for SaaS platforms, government applications, and data-driven solutions.
- ✓ Backend and Full Stack development using Ruby on Rails, Vue.js, Flutter, React Native, Python, and FastAPI.
- ✓ Data engineering, ETL processes, and automation for processing large volumes of public and private data.
- ✓ Development of OCR + NLP pipelines for large-scale document extraction, classification, and indexing.
- ✓ Implementation of Machine Learning solutions applied to data analysis, automation, and irregularity detection.
- ✓ Design of distributed systems, messaging solutions, asynchronous processing, and high-availability architectures.
- ✓ Technical leadership, code review, architecture standards definition, and engineering best practices.
- ✓ Structuring and standardization of the software development lifecycle, CI/CD, deployment automation, and observability.
- ✓ PostgreSQL and Redis database modeling and optimization focused on performance and scalability.
- ✓ Development of integrations between government systems, external APIs, and enterprise platforms.
- ✓ Development of offline-first mobile applications for field data collection and remote operations.
- ✓ Participation in digital transformation and technology modernization projects for public and private organizations.

In my most recent professional experiences, I achieved the following results:

- ❖ Achieved an approximately 98% reduction in query response time for public procurement systems, decreasing searches from 13 seconds to around 150 milliseconds through the implementation of Apache Solr.
- ❖ Developed platforms capable of processing more than 64 million Brazilian company records (CNPJs) monthly, integrating data from multiple government and private sources.
- ❖ Structured OCR and NLP pipelines responsible for processing and indexing over 1.2 million pages in nationwide INCRA projects.
- ❖ Participated in the architecture and evolution of more than 15 digital products, including SaaS platforms, offline-first mobile applications, IoT systems, and Artificial Intelligence solutions.
- ❖ Provided technical leadership across more than 13 simultaneous products, contributing to architecture definition and technological evolution.
- ❖ Reduced rework by approximately 50% through the standardization of the software development lifecycle and engineering processes.
- ❖ Developed real-time ingestion systems with an average latency of approximately 200ms for IoT and wearable platforms.
- ❖ Implemented Machine Learning and automation solutions for intelligent document classification and irregularity analysis in public procurement processes.
- ❖ Structured ETL pipelines integrating government data sources such as Comprasnet, AGU, TCU, Receita Federal, and SERPRO.
- ❖ Developed high-availability applications focused on tax analysis, intelligent monitoring, and automation of critical processes.

ACADEMIC BACKGROUND

- ❖ **MBA in Data Science & Analytics – USP/ESALQ – 2026**
- ❖ **Study Abroad Program (Partial Degree) – University of Adelaide – 2015**
- ❖ **Associate Degree in Systems Analysis and Development – Universidade Católica de Brasília – 2016**

PROFESSIONAL EXPERIENCE

AUGUST 2021 – PRESENT

GRUPO SPEZI
FULL STACK SOFTWARE ENGINEER

- ✓ Responsible for the architecture and technical leadership of more than 13 simultaneous products, including SaaS platforms, government systems, IoT applications, AI solutions, and high-availability systems.
- ✓ Worked on projects focused on data engineering, distributed systems, NLP, OCR, Machine Learning, and scalable architecture.
- ✓ Developed and evolved solutions using Ruby on Rails, PostgreSQL, Redis, Docker, Vue.js, Flutter, React Native, Python, and FastAPI.
- ✓ Structured OCR + NLP pipelines responsible for processing and indexing more than 1.2 million pages for nationwide INCRA projects.

- ✓ Developed a tax-focused SaaS platform capable of processing more than 64 million Brazilian company records (CNPJs) monthly, integrating SERPRO, Receita Federal, SPC, Serasa, and Brazilian court systems.
- ✓ Designed architecture for real-time ingestion and visualization of data from IoT sensors and wearable devices.
- ✓ Defined architecture standards, code review processes, engineering best practices, and technical governance across the company.
- ✓ Led the standardization of the software development lifecycle, reducing rework by approximately 50%

AUGUST 2019 – AUGUST 2021

GRUPO SPEZI
SENIOR FULL STACK DEVELOPER

- ✓ Worked on the development of data-driven solutions for the public sector, focused on data engineering, automation, NLP, and Machine Learning.
- ✓ Structured and implemented ETL pipelines for ingestion, normalization, and daily processing of large volumes of public and fiscal data.
- ✓ Developed REST APIs with JWT authentication and RBAC authorization for system integration and structured data delivery.
- ✓ Modeled and optimized PostgreSQL and MongoDB databases, improving performance, integrity, and scalability.
- ✓ Applied Machine Learning techniques using Scikit-learn and NLTK for text classification and automated detection of irregularities in public procurement processes.
- ✓ Developed web scraping and automation solutions for data extraction across multiple government sources.
- ✓ Trained CNN models for automated CAPTCHA solving, increasing scraping process efficiency by approximately 30%.
- ✓ Developed analytical dashboards and data visualizations for strategic support and analysis of public agreements and contracts.
- ✓ Participated in the development of an offline-first mobile application for census and land data collection using React Native.

FEBRUARY 2018 – AUGUST 2019

GRUPO SPEZI
FULL STACK SOFTWARE DEVELOPMENT INTERN

- ✓ Worked on the development of a platform focused on public procurement planning and analysis, with emphasis on data search, automation, and integration between government systems.
- ✓ Developed backend solutions using Ruby on Rails, PostgreSQL, Redis, and Sidekiq.
- ✓ Implemented an advanced search engine using Apache Solr for indexing and querying contracts, public tenders, and government documents.
- ✓ Developed and maintained APIs and features focused on analysis and consolidation of public data.
- ✓ Implemented automated tests using RSpec and Capybara, increasing application reliability and stability.
- ✓ Participated in integrations with external systems for enrichment and consolidation of government data.
- ✓ Managed deployments and Dockerized environments on DigitalOcean, contributing to infrastructure scalability and stability.
- ✓ Supported performance optimization initiatives and the evolution of application architecture.

MAY 2013 – FEBRUARY 2014

ALGAR TECH
SUPPORT ANALYST

- ✓ Provided Level 1 and Level 2 technical support in a corporate environment, handling and resolving incidents related to hardware, software, and network infrastructure.
- ✓ Installed, configured, and maintained operating systems, corporate software, and workstations.
- ✓ Performed troubleshooting and technical diagnostics, ensuring operational continuity and minimizing downtime.
- ✓ Supported internal users with infrastructure, connectivity, and enterprise system-related issues.
- ✓ Conducted preventive and corrective maintenance on hardware equipment and network environments.
- ✓ Assisted in the configuration and basic administration of networks and IT assets.
- ✓ Registered, monitored, and resolved technical support tickets in accordance with operational processes

LANGUAGES

- ❖ **English: Advanced**

PROFESSIONAL CERTIFICATIONS

- ❖ **Professional Scrum Master I (PSM I) – Scrum.org – January 2025**
- ❖ **Scrum Foundation Professional Certificate (SFPC) – CertiProf – January 2023**

ADDITIONAL INFORMATION

- Strong analytical skills with the ability to transform complex technical problems into practical and scalable solutions.
- Experience working under pressure in critical projects, highly complex environments, and operations with high demand volumes.
- Generalist profile with the ability to work across architecture, software engineering, data, infrastructure, and product domains.
- Skilled in leading technical discussions, defining architecture strategies, and influencing engineering decisions.
- Adaptable to high-uncertainty environments, balancing strategic vision with hands-on execution in software development.
- Focused on collaboration, continuous improvement, and building sustainable business-oriented solutions with real impact.