

Luca Villela

Software Engineer | Brazil

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PROFESSIONAL SUMMARY

Software Engineer with 3 years of experience and a final-semester Computer Engineering undergraduate. I build full-stack applications with React, Next.js, Python, and FastAPI, using PostgreSQL as the database and Docker for deployment and infrastructure. I also work with LLM and GenAI solutions, including AI-assisted development, RAG, and NLP. In 2024, I was selected as a software engineer at Fraunhofer IPT (Germany), developing solutions for industrial network research.

TECHNICAL SKILLS

Main Stack: React, TypeScript, Python, FastAPI, PostgreSQL, Docker
Areas: Full-stack Development, AI-assisted Development, Databases, DevOps, GenAI Solutions

WORK EXPERIENCE

Research Assistant & Software Engineer <i>Fraunhofer Institute for Production Technology IPT</i>	07/2024 – 07/2025 <i>Aachen, Germany</i>
- Developed Angular frontend applications that served as the critical control interface for the systems under development, used directly by clients and industry partners - Implemented MQTT communication with microcontrollers, enabling real-time monitoring of experiments and prototypes - Orchestrated deployments of multiple projects with Docker and CI/CD pipelines, managing several VMs, one per project, to ensure reproducible environments and consistent deployments	
Software and Data Engineering Intern <i>Bahia State Court of Justice</i>	01/2024 – 06/2024 <i>Salvador, Brazil</i>
- Built Power BI dashboards used by administrative departments to support decision-making - Automated manual operational workflows with Python, Power Apps, and Power Automate, eliminating repetitive tasks and reducing errors and rework - Created internal applications to replace third-party tools, ensuring technological autonomy and control over the Court's software	
Software Engineer <i>In9 Mídia - part-time</i>	03/2023 – 12/2023 <i>Salvador, Brazil</i>
- Modeled and managed PostgreSQL databases for production applications - Used Docker to streamline development, integration, and deployment - Refactored and developed React interfaces, improving maintainability and user experience	

EDUCATION

SENAI CIMATEC University <i>B.Sc. in Computer Engineering</i>	Ongoing · 9/10 semesters completed <i>Salvador, Brazil</i>
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CERTIFICATIONS

Generative AI for Software Engineers <i>IBM</i>	2026	Google AI Professional Certificate <i>Google</i>	2026
Junior Cybersecurity Analyst <i>Cisco Networking Academy</i>	2026	Machine Learning Foundations <i>AWS Academy</i>	2026

PROJECTS

Orqenza <i>React, Laravel, FastAPI, PostgreSQL, Redis</i>	orqenza.com
Complete web platform that unifies the management of multiple social media accounts in one place.	
Corretores Online <i>React, Go, PostgreSQL, Google Maps API</i>	corretoreson.com
Web platform that connects realtors with clients and other professionals based on location.	