

Luiz Carlos Costa da Silva

Software Engineer

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SUMMARY

Software Engineer professional experience specializing in AI-driven automation and backend development. Currently building Python-based AI agents that process daily B2B security incidents, along with designing database architectures and data dashboards from scratch. B.Sc. in Computer Science from the University of São Paulo (IME-USP), with a capstone focused on LLMs and RAG and work experience with Claude Code.

EXPERIENCE

Backend Software Engineer

August 2025 – Present

Auria AI

São Paulo, SP

- Tech stack: Python, PostgreSQL, SQLAlchemy, Metabase, Docker, Claude Code.
- Architected and implemented the database from scratch using PostgreSQL and SQLAlchemy.
- Designed and maintained Metabase dashboards to visualize key metrics and generate actionable insights.
- Developed Python-based AI agents handling daily B2B security incidents at scale.
- Automated incident summarization and insight extraction using AI, improving team productivity.
- Experience working with Claude Code.

Software Developer Scholarship – Hub USP Inovação

January 2021 – August 2023

IME-USP

São Paulo, SP

- Tech stack: Kotlin, Vue.js, JavaScript, Docker.
- Scholarship holder under the supervision of Prof. Dr. Alfredo Goldman.
- Redesigned and rewrote a large legacy Ruby on Rails system into a modern, scalable backend using Kotlin.
- Developed backend features from scratch, including new domain models, APIs, and automated tests.
- Managed and maintained the platform infrastructure and deployment environment.
- Contributed to AUSPIN's innovation platform, a reference in Latin America for transparency in university innovation data.
- Platform scale: approximately 1,000 patents, 3,000 companies, 3,000 professors, and 100+ innovation initiatives.

EDUCATION

B.Sc. in Computer Science

2020 – 2024

University of São Paulo (IME-USP)

- Capstone project in Artificial Intelligence focused on Large Language Models (LLMs) using Retrieval-Augmented Generation (RAG) with LangChain.
- Coursework focused on software systems and artificial intelligence.

EXTRACURRICULAR ACTIVITIES

Member and President of USPCoDeLab

January 2021 – March 2024

IME-USP

São Paulo, SP

- Organized two hackathons for incoming students, securing sponsorships, mentoring participants, and managing budgets.
- Served as President from January 2022 to August 2023, leading a group of approximately 20 members focused on web development education.

- Led the development of university-focused applications using a JavaScript-based stack and Agile methodologies.
- USPCodeLab is a student organization focused on technological innovation, offering bootcamps, hackathons, tech talks, and study groups.

SKILLS

Languages & Frameworks: Python, Kotlin, JavaScript, Vue.js, React, SQL, LangChain

Databases & Tools: PostgreSQL, Docker, Git, Metabase

Concepts: Software Architecture, System Design, REST APIs, Agile Methodologies, OOP, Algorithms, Data Structures, Large Language Models (LLMs), Retrieval-Augmented Generation (RAG)

LANGUAGES

Portuguese (Native), English (Advanced), Mandarin (Beginner)