

Luis Eduardo Soares

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Summary

Software Engineer specialized in backend with Python (FastAPI + SQLAlchemy) and fullstack applications with Next.js. I have experience with microservices, messaging with RabbitMQ, and containerization using Docker, always focusing on scalable, testable, and highly available systems.

Experience

Dynaccurate SARM – Development of clinical applications focused on interoperability and AI for the healthcare sector. Luxembourg, LU

Senior Software Engineer March 2021 – Present

- Architected and developed the Electronic Patient Record (EPR) system, implementing structured data capture, AI-assisted auto-coding, and oncology workflows, ensuring compliance with international medical standards.
- Engineered large-scale terminology mapping pipelines between vocabularies such as DM+D, SNOMED CT, and ICD-10, leveraging RabbitMQ and microservices to process millions of mapping operations daily with high reliability.
- Key contributor to the Medications Data Interoperability Project (MDIP), an EU-funded initiative enabling cross-border lookup of 1M medicines and their international equivalents across Europe, UK, Canada, and USA.
- Designed AI-based matching algorithms and semantic interoperability services to unify heterogeneous healthcare datasets, supporting clinical research and patient safety use cases.
- Implemented blockchain-backed consent management and provenance tracking, ensuring auditability and trust in patient and clinical data usage.
- Built asynchronous processing architectures with RabbitMQ and containerized services, scaling data imports and harmonization workflows under heavy workloads.
- Designed and optimized multi-store data models across MongoDB, GraphDB, PostgreSQL, and Elasticsearch, enabling real-time indexing and querying of 50M+ medical codes.
- Automated CI/CD pipelines with Kubernetes, Docker, and Azure DevOps, achieving 100% release automation and reducing manual deployment effort significantly.
- Led multiple Proof-of-Concept (PoC) initiatives exploring advanced technologies such as FHIR APIs and blockchain for healthcare, influencing long-term product direction.
- Directed code review practices that improved maintainability and reliability, evidenced by an 83% SonarCloud quality score.

Education

Impacta College, Associate Degree in Systems Analysis and Development 2020 – 2021

Languages

English Advanced (B2)

Portuguese Native Speaker

Skills

Python (Flask, FastAPI, Strawberry, SQLAlchemy & Alembic) – Javascript (Typescript) – React (Next.js) – TailwindCSS – REST – GraphQL – Git – RabbitMQ – Redis – Docker – Kubernetes – CI/CD – Azure DevOps – Github Actions