

Luiz Ferreira

Senior Software Engineer | Enterprise Cloud | Backend | Platform | AI Engineering

Professional Summary

Software Engineer with approximately six years of experience building enterprise software. Experienced developing enterprise private cloud solutions for telecommunications customers using React, Node.js, Python, Kubernetes and distributed systems. Strong background in software security, release engineering, code quality, AI-assisted development and collaboration with international engineering teams.

Core Skills

Node.js, TypeScript, Python, React, Express, REST APIs, Kubernetes, Docker, Helm, Microservices, Event-Driven Architecture, Distributed Systems, RabbitMQ, PostgreSQL, Redis, MongoDB, GitLab CI, Jenkins, CVE Remediation, Trivy, Twistlock, SemVer, Code Reviews, Technical Spikes, Root Cause Analysis, MCP, RAG, AI Agents, Kiro.

Professional Experience

Software Engineer (official internal title: Systems Development Assistant B)
Encora Inc. – Enterprise Private Cloud Engineering

- Develop full-stack features for an enterprise private cloud platform used by telecommunications companies.
- Build React modules and backend services with Express and Python.
- Participate in architecture discussions, technical spikes and proof-of-concept implementations.
- Work with Kubernetes, microservices, distributed systems and event-driven components.
- Investigate complex production issues and perform root cause analysis.
- Review code, mentor new engineers and collaborate with distributed engineering teams in English.
- Analyze and remediate CVEs using Trivy and Twistlock, including dependency upgrades and compatibility validation.
- Contribute to release engineering, SemVer, hotfixes, release branches and changelog generation.
- Develop AI-assisted workflows for dependency updates, changelog generation, semantic search and engineering automation.

Selected Engineering Contributions

- Contributed to the design of zero-downtime upgrade strategies for clustered environments.
- Proposed improvements to Python asynchronous execution after investigation and proof-of-concept validation.
- Helped introduce a modular backend architecture based on actions to improve maintainability.
- Moved business logic from frontend to backend where appropriate to improve maintainability and performance.

Previous Experience

Software Engineer at a software outsourcing company delivering enterprise full-stack solutions for clients including Heineken Brazil and Coty.

Education & Certification

AWS Certified Developer – Associate
Bachelor's degree in progress