Luís Sousa

Contact

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Skills

Programming Languages
Go, TypeScript

Cloud
Azure, AWS, GCP

Infrastructure & DevOps
Terraform, Pulumi, Docker, Kubernetes, ArgoCD, OpenTelemetry, Grafana

Databases
PostgreSQL, DynamoDB, MongoDB, Redis

Frontend
React, Astro

Backend
gRPC, REST, event-driven & distributed systems (Azure Service Bus, Kafka/Redpanda, Amazon SQS)

AI Engineering
Claude Code, MCP, agentic workflows

Languages

Portuguese
Native

English
Fluent (C2)

Spanish
Intermediate (B1)

Experience

TomTom — Senior Software Engineer — Oct 2024 – Present

- Led TomTom's pay-as-you-go platform from prototype to production launch: a Go service where developers buy prepaid credits for TomTom's APIs, integrated with Adyen (3-D Secure) and SAP invoicing; now replacing the legacy billing system.
- Proactively designed and built a full-stack admin panel from scratch (Go, React, Entra ID SSO, RBAC), giving real-time visibility into orders, revenue, and customers, with automated refunds, credit management, and debugging tooling that replaced manual production intervention.
- Owned production end-to-end: set up CI/CD, built alerting and on-call (PagerDuty, OpenTelemetry, Grafana), and led resolution of cross-team production incidents.
- Introduced an event-driven message-queue architecture (Azure Service Bus), a first in the business unit.
- Caught and fixed two security vulnerabilities before launch: payment amount tampering and cross-customer order exposure (IDOR).
- Built an internal platform for orchestrating LLM agents (Claude Code): an agent dashboard, Jira/GitHub automation, and scheduled autonomous workflows, adopted across the engineering unit.

Road — Software Engineer — Jan 2024 – Jul 2024

- Designed and implemented an event-driven system using Go, gRPC, Redpanda (Kafka-compatible), and GCP to enable anonymous payments for EV charging sessions in compliance with EU AFIR regulations.

OLX — Software Engineer — Jun 2021 – Dec 2023

- Designed and built Go microservices on AWS for bulk advert posting and monetization for professional sellers across 3 countries, including a fully asynchronous ingestion API that, in load tests, cut processing time for 10,000 adverts from ~16 hours to 3 and drove error rates from 13% to effectively zero.
- Deployed and managed services on AWS using Kubernetes, Docker, Terraform, and ArgoCD.
- Mentored 3 junior and trainee team members.

Education

Instituto Superior Técnico

- **MSc in Computer Science and Engineering** — Sep 2018 – Jan 2021
  - GPA: 18/20
  - Erasmus exchange semester at Vilnius Gediminas Technical University (Sep 2018 – Jan 2019)
- **BSc in Electrical and Computer Engineering** — Sep 2015 – Jun 2018

Open Source

- **Go:** reported a release-blocking runtime bug (panic recovery under the race detector) and bisected to the offending commit.
- **Microsoft MSAL Go:** root-caused a context-cancellation race in the managed-identity retry loop causing intermittent token failures.
- **Adyen Go SDK:** reported and patched a nil-pointer panic in the HMAC webhook signature validator.