



Luís Sousa

Experience

TomTom Senior Software Engineer

Oct 2024 - Present

- Led development of TomTom's pay-as-you-go platform from prototype to production launch: a Go service where developers buy prepaid credits to access 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 with role-based access), giving real-time visibility into orders, revenue, and customer activity, 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.
- Identified and fixed critical pre-launch security vulnerabilities, including a payment-amount validation gap and an authorization bypass (IDOR) exposing other customers' orders.
- 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, 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.
- Implemented monitoring and alerting with New Relic and log management with Kibana.
- Mentored 3 junior and trainee team members.

Education

Instituto Superior Técnico

Sep 2018 - Jan 2021

MSc in Computer Science and Engineering

GPA: 18/20

Erasmus exchange semester at Vilnius Gediminas Technical University (Sep 2018 - Jan 2019)

Instituto Superior Técnico

Sep 2015 - Jun 2018

BSc in Electrical and Computer Engineering

Open Source

Root-caused a context-cancellation race in Microsoft's MSAL Go library (managed-identity retry loop), with a self-contained repro and production evidence. Reported and patched a nil-pointer panic in Adyen's Go SDK webhook HMAC validator.

Contact

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Skills

Programming Languages

Go, TypeScript

Cloud

Azure, AWS, GCP, Kubernetes

Infrastructure & DevOps

Pulumi, Terraform, Docker, ArgoCD, OpenTelemetry, Grafana

Databases

PostgreSQL, DynamoDB, MongoDB, Redis

Frontend

React, Astro

Backend

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

AI Engineering

LLM agent orchestration, Claude Code, MCP

Languages

Portuguese

Native

English

Fluent (C2)

Spanish

Intermediate (B1)