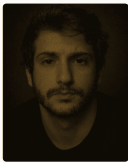


PIETRO FREIRE

SENIOR SOFTWARE ENGINEER · LISBON, PORTUGAL



Building mission-critical platforms with **precision** and craft.

· / CONTACT

CONTATO@PIETROFREIRE.COM
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· / EXPERTISE

LANGUAGES & FRAMEWORKS

Java, Spring Boot, TypeScript, Angular, React, NestJS, Node.js

FRONTEND

Angular (Signals, Module Federation), micro-frontends, design systems

BACKEND & DATA

REST APIs, microservices, PostgreSQL, SQL, JUnit

CLOUD & DEVOPS

Docker, Kubernetes, AWS, Jenkins, CI/CD, Git

AI & PRACTICES

AI-assisted development (Claude Code, MCP), Agile, system design

· / EDUCATION

Analysis and Systems Development

Universidade Presbiteriana Mackenzie · São Paulo · 2019—2021

Information Systems

Universidade Presbiteriana Mackenzie · 2019—2023 · discontinued

· / LANGUAGES

PORTUGUESE (NATIVE) · ENGLISH (PROFESSIONAL)

01 / PROFILE

Senior software engineer with six years building mission-critical platforms for global banks: trading systems at J.P. Morgan, credit-card APIs at Bradesco, insurance micro-frontends for Santander via KPMG. Independent products shipped end to end as a freelancer. Since 2024, AI-augmented engineering as a daily practice: spec-first development, MCP design systems and deterministic harnesses around agents.

02 / SELECTED EXPERIENCE

FEB 2024 – PRESENT

KPMG Portugal

SENIOR SOFTWARE ENGINEER · LISBON

- Micro-frontend architecture in Angular with Module Federation for enterprise portals
- Fullstack development across Angular and Node/NestJS with shared Widget & Workspace SDKs
- Contributed to Santander's OneCare insurance platform (2024—2025) and to global KPMG initiatives

MAR 2023 – FEB 2024

PrimeIT

JAVA DEVELOPER · LISBON

- End-to-end internal platform for vacancies and candidate pipelines
- Java/Spring Boot backend with a React frontend over REST

MAY 2022 – MAR 2023

J.P. Morgan

SOFTWARE ENGINEER · CIB MARKETS TECHNOLOGY · SÃO PAULO

- Evolved Cash Equities trading systems integrated with the B3 exchange
- Worked on the modernization of the global FX transaction module

OCT 2020 – APR 2022

Bradesco

JAVA DEVELOPER · SÃO PAULO

- Mission-critical REST APIs for credit cards: transactions, limits and statements
- Secure, scalable services with production-grade reliability and monitoring

03 / AI PRACTICE · DAILY SINCE 2024

Spec-first development

LLMs as analytical stress-tests for human thinking, until a rigorous Markdown spec is the single source of truth.

MCP design systems

MCP servers indexing tokens, styles and components, so AI agents compose production-ready interfaces.

Harness engineering

Deterministic guardrails around non-deterministic agents: progressive context, teaching linters, approved fixtures.