

Fábio Rodrigues Pereira

Fullstack Developer | Tech Lead | Senior Software Engineer

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PROFESSIONAL SUMMARY

Oslo-based fullstack engineer and Tech Lead with seven years operating mission-critical, regulated Nordic financial systems and an independent track record in quantitative trading and real-time market data. Currently lead a cross-functional team of nine at Accenture Nordics on 100+ production microservices serving 300,000+ active users — part of the largest Nordic IT transformation in history (Konsultprisen 2025 winner, “Store oppdrag” category). Designing and rolling out an MCP server on Spring AI to expose internal data and tools to the team’s IDE-based AI assistant, automating managed-service operations for 200+ internal users across the retirement-pension and AFP product lines. Hands-on across Spring Boot / Kafka backends, React / TypeScript front ends, Kotlin mobile, PostgreSQL / SQL Server, and Azure / OpenShift CI/CD. Default user of AI-assisted coding workflows with sound engineering judgement. Fluent Norwegian (Bergenstesten), comfortable in regulated financial environments. MSc Computational Science, University of Oslo.

CORE SKILLS

AI-Augmented Engineering: Spring AI, Model Context Protocol (MCP) server design and integration, JetBrains IntelliJ AI assistant integration, Claude Code workflows, LLM tool-use orchestration, prompt and context engineering, sound judgement on when to trust AI output and when to override it.

Backend & Distributed Systems: Java (Spring Boot, Spring AI, Hibernate, JPA, junit), microservices, event-driven architecture, Kafka, REST, SOAP, API and data-contract design, high-volume transactional systems in regulated finance.

Frontend & Mobile: TypeScript, React, HTML/CSS, Tailwind, design-system collaboration; Kotlin (Android) for native mobile; able to quickly pick up Angular and .NET MAUI given strong TypeScript and Kotlin foundations.

Data & Storage: PostgreSQL, SQL Server (T-SQL), Snowflake, NoSQL, schema design, data modelling, query tuning.

Cloud, DevOps & Platform: Azure (AZ-900, DP-900), OpenShift / Kubernetes patterns, Docker, Jenkins, Bitbucket, CI/CD pipeline design, Linux, Bash, SSH, networking (TCP/IP, DNS, load balancers), infrastructure-as-code direction.

Observability & Incident Management: Splunk, Grafana, Camunda, ITIL processes, blameless postmortems, on-call response, SLA / SLO management.

Leadership & Process: Cross-functional team leadership, mentoring, code reviews, technical roadmaps, Agile/Scrum, Kanban, Jira, Confluence, stakeholder management.

Quant & Real-Time Markets: Live PPO reinforcement-learning trading on Brazil’s B3 exchange via MetaTrader 5, walk-forward cross-validation, time-series forecasting, NLP sentiment analysis, deep learning (CNN, RNN/LSTM, Transformers).

Other Languages & Frameworks: Python (PyTorch, TensorFlow, Transformers, pandas, NumPy, SciPy, scikit-learn, statsmodels, Flask, Django), C/C++ (OpenMP, MPI, Qt), SQL.

PROFESSIONAL EXPERIENCE

Accenture Nordics — Oslo, Norway

Sep 2022 — Present

Team & Tech Lead (Jun 2025 — Present) | Senior Software Engineer (Sep 2022 — Present)

- Promoted to Team & Tech Lead in June 2025 while continuing to operate as a hands-on Senior Software Engineer alongside the leadership role.
- Lead a cross-functional team of nine — one functional analyst, one data expert, one tester, and six developers — delivering on the largest Nordic IT transformation project in history (Konsultprisen 2025 winner in the “Store oppdrag” category).
- Own production operations of 100+ microservices in a high-volume Norwegian financial system serving 300,000+ active users, with full responsibility for reliability, availability, and performance.
- Lead the design and rollout of an internal MCP (Model Context Protocol) server built on Spring AI and Spring Boot, exposed to the team’s IntelliJ-based AI assistant chat, to automate managed-service operations across the retirement-pension and AFP product lines for 200+ active internal users (incident triage, change-request preparation, runbook execution, knowledge retrieval).
- Drive ITIL-aligned incident, problem, and change management; coordinate global on-call response; lead blameless post-mortems for mission-critical services.

- Architect and contribute to scalable React / TypeScript front ends, Spring Boot + Hibernate backend microservices, and Kafka event-streaming pipelines; design APIs, data contracts, and event-driven flows that maintain platform stability under load.
- Design and continuously improve CI/CD pipelines on Azure, Jenkins, OpenShift, and Bitbucket — reducing manual work and increasing deployment automation; moving the platform toward Kubernetes-native and infrastructure-as-code patterns.
- Default to AI-assisted coding workflows (Claude Code and IDE-integrated assistants) with engineering judgement on when to trust, refine, or override generated output.
- Set coding standards, review designs, mentor engineers, and serve as the technical point of reference for the development team.
- Partner with client stakeholders to define technical roadmaps and shape the long-term digital transformation strategy.

Technologies: Java, Spring Boot, Spring AI, Hibernate, Kafka, REST/SOAP, MCP servers, React, TypeScript, Python, Docker, Linux, Jenkins, OpenShift, Bitbucket, Splunk, Grafana, Camunda, SQL Server (T-SQL), PostgreSQL, Azure, Snowflake, Jira, Confluence, Agile/Kanban, ITIL.

Independent Quantitative Research — “T70”

2011 — Present

Financial AI Strategist

- Build and operate algorithmic trading, forecasting, and portfolio-management strategies for US, Brazilian, and European markets — including a live PPO deep-reinforcement-learning ensemble (“T70”) trading WIN mini-index futures on the Brazilian B3 exchange through MetaTrader 5.
- Design and run the full real-time pipeline: tick-data ingestion, feature engineering, model training, walk-forward back-testing (nineteen folds over six years of tick data), live execution, paper-trading dashboards, and Telegram heartbeat monitoring.
- Build AI-driven models — deep learning, statistical modelling, NLP sentiment analysis, and deep reinforcement learning (PPO) — to identify market patterns and trading edges.
- Long-term quantitative research on price-action behaviour, volatility regimes, and trend/reversal patterns for improved predictive accuracy on data-heavy market interfaces.

Technologies: Python, PyTorch, TensorFlow, Transformers (Hugging Face), pandas, NumPy, SciPy, statsmodels, scikit-learn, Optuna, MetaTrader 5, SQL, Git.

Oslo Studentenes Idrettsklubb (OSI) — Oslo, Norway

Aug 2017 — May 2018

Team Manager & Basketball Coach — Men’s H3 squad

- Team Manager for the H3 squad in the third division of the Norwegian Senior Basketball Championship.
- Provided tactical coaching and strategic direction throughout the 2017/18 competitive season.

Dublin Mini Coaches & Chauffeur Drive Ltd — Dublin, Ireland

Jun 2015 — Aug 2015

Marketing, Ads & Social Media Strategist

- Maintained customer databases; researched market trends and audience preferences.
- Designed and executed a social-media strategy aligned with organisational objectives.

Technologies: Google Ads, Meta Ads, Google Analytics.

Defensoria Pública do Estado de São Paulo — São Paulo, Brazil

Aug 2012 — Nov 2014

Lawyer & Accredited Public Defender

- Held civil and criminal public litigation portfolios as an independent attorney and accredited public defender.
- Provided legal consulting to a notable Brazilian electronics distributor, evaluating consumer legal exposures.
- Represented clients through pretrial proceedings: pretrial discovery, plea withdrawals, suppression motions, and pretrial conferences with judges and prosecutors.

Movil Distribuidora Brasil LTDA — São Paulo, Brazil

Jan 2007 — Dec 2011

Business Manager

- Built international supplier partnerships and managed deep-sea maritime logistics, assembly lines, and product development across Brazil's national territory.
- Contributed, alongside the regional sales team, to an annual gross sales milestone of BRL 20 million.
- Strategised production and maintenance plans, evaluated material requirements, and fine-tuned manufacturing configurations.

EDUCATION

MSc, Computational Science: Applied Mathematics and Risk Analysis

Universitetet i Oslo — Oslo, Norway

May 2022

BSc, Mathematics and Economics (Minor: Finance, Insurance and Risk)

Universitetet i Oslo — Oslo, Norway

Jun 2019

Completed 140 of 180 ECTS

Postgraduate, Corporate Labor Law

Complexo Damásio — São Paulo, Brazil

Dec 2014

BSc, Law

Mackenzie University — São Paulo, Brazil

Jun 2012

CERTIFICATIONS

- **Snowflake Core** — in-company in-person course (Jul 1–5, 2024).
- **Microsoft AZ-900 — Azure Fundamentals** — Credly certification (Mar 11, 2023).
- **Microsoft DP-900 — Azure Data Fundamentals** — Credly certification (Feb 09, 2023).

AWARDS

- **Best Scientific Academic Article — WNNLP 2021**, Oslo, Norway (May 27, 2021). *Applying Multitask Learning to Targeted Sentiment Analysis using Transformer-Based Models*. Proceedings | Award certificate.

SELECTED PUBLICATIONS

- **Pereira, F. R.** (2022). *Trading Financial Markets Using Reinforcement Learning: Application and Analysis*. MSc thesis, Universitetet i Oslo. [PDF].
- **Pereira, F. R.** (2021). *Applying Multitask Learning to Targeted Sentiment Analysis using Transformer-Based Models*. WNNLP 2021 — **Best Paper Award**. [PDF].
- **Pereira, F. R.** (2020). *Financial Time Series Forecasting using RNN and LSTM Cells and Application*. FYS-STK4155, UiO. [PDF].
- **Pereira, F. R.** (2020). *Deep Neural Networks for Regression and Classification cases*. FYS-STK4155, UiO. [PDF].
- **Pereira, F. R.** (2020). *Regression Analysis on Franke's function and digital terrain data*. FYS-STK4155, UiO. [PDF].

LANGUAGES

Portuguese — Native • **English** — Fluent • **Norwegian** — Fluent (Bergenstesten)

Spanish — Intermediate • **Italian** — Basic