# Pedro Torres SOFTWARE ENGINEER : IT TRAINER

Utrecht, Netherlands

♣ portfolio | ☑ pedro-areal-torres | in pedro-areal-torres | ☑ pedro.ts.torres@gmail.com | □+351 914 666 034

## Work Experience\_

#### Tech Lead / Full Stack Developer

Amsterdam, Netherlands

ING BANK

Jul. 2022 - Present

- Developed a graph-based platform using **D3.js**, **Java** and **Neo4j**, powered by an **Apache Airflow** ETL pipeline to extract and centralize data from third-party services and databases, solving data quality issues and enabling observability.
- Turned a zero-user prototype into a stable, company-wide platform by refining the product vision through stakeholder alignment and iterative PoCs.
- Refactored the Java backend using a dynamic dispatching pattern, consolidating multiple endpoints into a single parameterized route to improve scalability and maintainability.
- Removed legacy code by migrating from PolymerJS to React and TypeScript, improving maintainability and developer efficiency.
- Delivered internal training on React, TypeScript and Neo4j, mentoring new team members with documentation and design patterns.

IT Trainer Remote

RUMOS (ORACLE ACADEMY)

Jan 2021 – Present

- Delivered instructor-led online training in Java, Python, JavaScript, TypeScript, and MySQL.
- Created full course content including slide decks, exercises, and evaluation tests, tailoring the curriculum for diverse learner profiles.
- Prepared students for the Oracle Certified Java SE Developer certification with a 96% pass rate.
- Instructed over 150 students ranging from 18 to 61 years old, adapting teaching methods to varied learning styles and backgrounds.

#### Full Stack Developer Porto, Portuga

PORTUGUESE NATIONAL HEALTH SYSTEM

May 2020 - Jul. 2022

- Developed Trace Covid-19, Portugal's official tracking platform, enabling national-scale case tracing, using **Java**, **JavaScript** and **jQuery**.
- · Delivered end-to-end features for the digital medication prescription workflow, now responsible for 92% of prescriptions processed in Portugal.

Software Consultant Porto, Portugal

 Datamonplus
 Nov. 2019 – May 2020

- · Led requirement analysis and delivered on-site training for enterprise resource planning (ERP) solution tailored to textile manufacturing.
- Delivered software installations to textile companies, ensuring solutions were tailored to stakeholder requirements and business workflows.

## **Projects**

#### Engitex (SaaS for Textile Industry) ☑

- Developed a modular SaaS solution for textile dyeing and finishing companies using Next.js, NestJS, TypeORM, and PostgreSQL.
- Gathered requirements from multiple textile businesses and structured the data model and backend architecture following Domain-Driven Design (DDD) principles.
- Designed and built the UI/UX using TailwindCSS, creating reusable components, following principles from the book Refactoring UI.
- Automated deployments with Docker and Coolify.
- Secured pilot programs with 3 textile companies (each with 100+ employees and €5M+ annual revenue), and awarded the Portuguese StartUp Voucher for environmental impact and innovation.

### **Education**

#### **Bachelor's Degree in Computer Science and Engineering**

Porto, Portuga

FACULTY OF ENGINEERING - POLYTECHNIC OF PORTO

Sep. 2014 - Sep. 2019

#### Skills\_

**Frontend** Next.js, React, TypeScript, Tailwind CSS

**Backend** NestJS, Node.js, Java, Python **Database** PostgreSQL, MySQL, Neo4j

Infra Docker, Apache Airflow, Ansible, Coolify, Nginx, Azure, Git

**Testing** Cypress, Jest

**Languages** Portuguese (native), English (fluent), Spanish (fluent), Bulgarian (basic)

## Writing

2025 Building apps that last: React beyond the syntax

2024 Become a software developer: If I could start over ...

Medium article
Medium article