

Pedro Ferreira

<https://pedrojferreira.com/>

Software Engineer and Educator with 11 years of experience

Contact: hello@pedrojferreira.com

CAREER SUMMARY

Experienced Full-Stack Software Engineer and Teacher with 11 years in backend and cloud-native development using .NET, SQL Server, Azure, and Java technologies. Passionate about delivering scalable, innovative solutions while embedding DevOps, testing, and Agile best practices throughout the software lifecycle. Proven experience in supporting production systems, driving continuous improvement, and sharing knowledge through teaching.

TECH STACK HIGHLIGHTS

- **Programming:** .NET Framework/Core (C#), Java (Spring)
- **Frontend:** Bootstrap, jQuery, familiar with VueJS concepts
- **Cloud:** Microsoft Azure (Azure DevOps, Azure Storage, Application Insights, Azure Service Bus)
- **DevOps & Monitoring:** Git, Docker, Azure DevOps, Azure Application Insights
- **Databases:** Microsoft SQL Server, PostgreSQL, Oracle
- **Testing and Automation:** Unit Testing (NUnit), Mocking (NSubstitute)
- **Tools:** VSCode, Visual Studio, JetBrains Rider, Postman, Swagger, SourceTree

EXPERIENCE

- **Escola Profissional do Montijo** Montijo, Portugal
Feb 2025 - Present
 - **Teacher:** Teaching computer science courses with a specialization in computer networks to technical school students.
- **zkipster AG** Remote — Zurich, Switzerland
June 2023 - Present
 - **Senior Backend Engineer:** Delivering core features for an event management SaaS using .NET MVC, C#, SQL Server, PostgreSQL, and REST APIs. Embedded CI/CD pipelines, monitoring via Application Insights, and Agile delivery methodologies.
- **NTT DATA Portugal** Lisbon, Portugal
Nov 2016 - May 2023
 - **Team Leader/Developer — Hiscox France:** Led the development of a Microsoft Outlook 365 add-in using Azure APIM and Azure Active Directory.
 - **Team Leader/Developer — ehCOS EHR:** Designed and developed a Spring-based EHR system with pharmacy and nursing workflows and full data architecture.
 - **Team Leader/Developer — ehCOS MPI:** Built a centralized patient identity platform based on HL7 standards using Java REST/SOAP and Oracle SQL.
 - **Team Leader/Developer — CCI – Inpatient Customer Circuit:** Architected a PostgreSQL-based system to manage patient admissions, billing, and discharge workflows.
 - **Developer — SSTAT – Work Accident Management:** Developed a Java (JSF/Primefaces) work accident management platform.
 - **Developer — IAPMEI - Competitiveness Agency:** Developed an industrial licensing portal using ASP.NET MVC, SQL Server, Bootstrap, JQuery, and Azure.
 - **Developer — SOSHST - Health, Safety and Hygiene:** Helped develop a healthcare management web application using JSF.
 - **Developer — eSPap - Public Sector Services:** Maintained and evolved public sector portals using .NET, SQL Server, and SharePoint 2016.
- **Accenture Portugal** Lisbon, Portugal
Jul 2013 - Oct 2016
 - **Developer — ANSR – Road Safety Authority:** Developed Java (JSF) systems for managing administrative infraction processes and public portals.
 - **Developer — Social Security I.P.:** Built Spring-based applications automating social security operations and backend processes.
 - **Developer — Tax Authority:** Implemented enhancements and maintained Java-based tax systems.

EDUCATION

- **Instituto Politécnico de Leiria - School of Technology and Management** Leiria, Portugal
Master's Degree in Computer Science - Mobile Computing; 17/20 Sep 2012 – May 2015
- **Instituto Politécnico de Leiria - School of Technology and Management** Leiria, Portugal
Bachelor's Degree in Computer Science - ICT; 13/20 Sep 2008 – Jul 2012

PERSONAL PROJECTS

- **F1 Data Pipeline:** Built an ELT pipeline to extract, load and transform F1 racing data using Kaggle API, Docker, GCP Storage, BigQuery, and Metabase.
- **Twitter Real-Time Word Processing:** Processed live Twitter streams using Tweepy and Apache Spark (PySpark) with visualizations on Metabase.
- **Web Scraping - Portuguese Parliament Voting:** Scraped Parliament voting data, processed with PostgreSQL and Azure Storage, visualized in Apache Superset.
- **ETL Pipeline with Azure Data Factory and Databricks:** Built cloud ETL pipelines to process environmental datasets on Azure cloud services.

CERTIFICATIONS

- Microsoft Azure Data Fundamentals (DP-900) (2023)
- Microsoft Azure Fundamentals (AZ-900) (2022)
- Google Cloud - Associate Cloud Engineer (2022)
- Data Engineering, Big Data, and Machine Learning on GCP (Coursera, 2022)
- Big Data Specialization (UC San Diego, 2021)
- Professional Scrum Master I (2019)
- Six Sigma Yellow Belt Professional (2020)
- Liferay DXP 7.0 Certified (2018)
- Cisco CCNA Certifications (2011)

LANGUAGES

- Portuguese (Native)
- English (Professional Proficiency)
- Spanish (Professional Proficiency)