

# José Pedro Fonte

Portugal

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## Personal Profile

MSc in Software Engineering from Universidade do Minho and LMU Munich (still finishing). Currently working as an AI/ML Engineer at Promptly Health, building AI-powered products for the medical domain. Passionate about product development - from idea to production. Beyond work, I enjoy lifting, running, nature, music, podcasts, traveling, cinema, and keeping up with cutting-edge tech.

## Work Experience

### Promptly Health

Portugal, Remote

AI/ML Engineer | Full-Time

Mar 2025 - Present

- Solo developer of the AI Backend of Promptly's Explore Platform, a platform for exploring, visualizing and querying medical databases with Agents. Highly Successful MVP of the platform was developed in 3 months (Core team of 3 people (2 Full-Stack, 1 AI/ML Engineer)) for client demos and internal use. Still working on this as the main developer.
- Experience in Agents and Tooling, RAG, Observability, Evaluations, Product Integration and API Design and Development.
- Part of a small and enthusiastic team working on agents, structured medical data, post-training models (NER, Emotional Analysis, Q&A, Embeddings Models), MLOps pipelines.
- Worked part-time from March to September 2025 while finishing my MSc thesis. In this phase I focused on improving the existing projects by incorporating Observability and Evaluations, Optimizing Workflows, improving API reliability.
- **Technical Skills:** Python, FastAPI, Agno, OpenRouter, Langfuse, QdrantDB, OMOP cdm, PostgreSQL, Docker, Git/Github, Claude Code & Cursor
- **Soft Skills:** Product Ownership · Product Vision · Fast Learning & Prototyping · Communication with Stakeholders · Research · Documentation

### Promptly Health

Portugal, Remote

AI/ML Engineer Intern | Summer Internship

Jun 2024 - Aug 2024

- Working as an AI/ML Engineer, solo and high agency.
- Project: Chat to DB | Agent to interact with Medical Databases.
- Researched, documented, developed and measured multiple PoCs with different SoTA approaches.
- Developed an MVP with Streamlit.
- **Technical Skills:** Docker, PostgreSQL, ChromaDB, Python, Langchain, Ollama, HuggingFace, Streamlit
- **Soft Skills:** Independence · Time Management · Organization · Research & Documentation · Presentation Skills

### Colégio João Paulo II

Braga, Portugal

Assistant Professor of Robotics | Freelance

Sep 2021 - Jun 2024

- Taught 2x week a robotics extracurricular class to kids from the 1st to 9th grade.
- Goals for the class: logical thinking, computers, electronics and code basics.
- **Technical Skills:** Scratch, LEGO Mindstorms, MicroBit, Arduino, Bot'n Roll
- **Soft Skills:** Teamwork · Leadership · Time Management · Communication · Teaching · Planning

### SNGLAR

Portugal, Remote

Full-Stack Developer | Summer Internship

Jul 2023 - Sep 2023

- Team of 4 interns building a Jira Marketplace app to provide more functionalities to JIRA Issues.
- Worked throughout the whole stack.
- **Technical Skills:** MongoDB, NodeJS, Express, React, Atlassian Design System, Git/Gitlab
- **Soft Skills:** Teamwork · Time Management · Communication · Problem-Solving · Fast Learning · AGILE

### CodeVision

Portugal, Hybrid

Full-Stack Developer | Summer Internship

Jul 2022 - Sep 2022

- Project: internal platform to manage international partners.
- Entered the "production line" of a real product being built.
- Worked with .NET stack.
- **Technical Skills:** C#, .NET Framework, SQL, Azure, Git
- **Soft Skills:** Teamwork · Time Management · Communication · Adaptability · AGILE

### CAVN

Barcelos, Portugal

Factory Worker | Summer Job

Jul 2019 - Aug 2019

- Worked on the production-line of a ceramics factory.

## CAVN

Factory Worker | Summer Job

- Worked on the packaging-line of a ceramics factory.
- My first summer job as a High-School student.

Barcelos, Portugal

Jul 2018 - Aug 2018

## Education

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### Ludwig-Maximilians-Universität München

MSc in Software Engineering | ERASMUS Exchange

• Exchange Year at one of Germany's top universities, LMU Munich.

- **Courses:** Deep Learning and Artificial Intelligence, Machine Learning, Automated Machine Learning, German Language Courses A1.1 · A1.2.
- **MSc Thesis:** "VLM Training – Unified Internal Rewards in GRPO" supervised by Dr. Yunpu Ma(LMU) and PhD Student Jinhe Bi (LMU/Huawei).

Munich, Germany

Sep 2024 - Aug 2025

### Universidade do Minho

MSc in Software Engineering

- My first year of my masters was a combination of some broad courses and then specialization on my main interests : Distributed Systems, Software Development(Mobile & Web) and Product Design.
- Distributed Systems Courses : Paradigms of Distributed Systems | Large Scale Distributed Systems | Fault Tolerance
- Software Engineering Courses: Mobile Software Development | SW Analysis, Transformation and Testing | Data Science for SW Engineers
- **Other Relevant Courses:** High Performance Computing, AI & ML, Cloud Applications and Services, Software Development, Network Services Engineering
- **Technical Skills:** OpenMP, MPI, CUDA || Jupyter Notebooks, Numpy, Pandas, Scikit-learn, Seaborn, Matplotlib, TensorFlow, Keras || Ansible, Docker, GCloud, GKE || React & React UI Libs || Golang, Wireshark, ffmpeg || Java Reactive gRPC, ZeroMQ, Erlang, Maelstrom || Java (Android), React Native || Documentation (  $\LaTeX$ , Typst)

Braga, Portugal

Sep 2023 - Aug 2025

### Universidade do Minho

BSc in Software Engineering

- Finished my BSc in Software Engineering and proceeded to an MSc in Software Engineering in order to deepen my knowledge in Distributed Systems, Software Development & Design and AI, ML & Data Science.
- The Bachelors degree has a project-based learning approach, so most of the subjects include a project, which made me develop the ability to design, build and test applications in a dynamic, collaborative and high-pressure environment.
- **Relevant Courses:** Functional Programming, Imperative Programming, Object Oriented Programming, Algorithms and Complexity, Operating Systems, Distributed Systems, Databases, Computer Networks & Communications, Compilers & Language Parsers, Artificial Intelligence, Machine Learning.
- **Technical Skills:** Java, Python, MySQL, C/C++, C#, Haskell, MatLab, Knime.

Braga, Portugal

2020 - 2023

### Universidade do Minho

BSc in Mechanical Engineering

- Spent one year studying Mechanical Engineering and decided to change degrees to Software Engineering.
- **Relevant Courses:** Calculus I, Calculus II, Linear Algebra, Material Science I, Material Science II, Technical Drawing, 3D Modelling/CAD

Braga, Portugal

2019 - 2020

## Volunteer Experience

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### IEEE Student Branch UMinho

Collaborator of Program Committee

- IEEE SB UMinho is a student organization of engineering students with a goal of connecting and organizing events.
- As a member of the Program Committee, I plan and organize workshops & talks or mini-courses.
- Taught a Workshop on Git/Github.

Braga, Portugal

2023 - 2025

### CesiUM (Centro de Estudantes de Engenharia Informática da Universidade do Minho)

Collaborator of Recreative Department

- CesiUM is an organized group of students from Informatics.
- Plan and organize social activities that bring together students from the course.

Braga, Portugal

2023 - 2024

### CoderDojo Braga

Mentor

- CoderDojo is a voluntary organization with the goal of teaching informatics to young kids and teens.
- Taught Scratch, Python and Web Technologies to Ninjas at CoderDojo Braga.

Braga, Portugal

2023 - 2024

# Projects

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## Personal Website

Braga, Portugal

Side-Project

2024

- **Github Repo | Website**

- In this project I wanted to create a minimalist website to showcase my projects, education, photos and a blog.
- Hosted on Vercel and built with NextJS, shadcn/ui, Tailwind.
- **Technical Skills:** TypeScript, NextJS, Vercel, React, shadcn/ui, Tailwind.

## University Projects

Braga, Portugal

Universidade do Minho

2020-2024

- **Github Repository Link**

- All my university projects are organized in a github repository, some of the most relevant:

- **Web**

- ProbUM : Lead a group of 15 people on a Exam Solving Platform with micro-services architecture. (React, Java + MySQL, NodeJs+Mongo)
- Fairthos: Online Fairs Platform. (C#, .Net, MySQL)

- **Mobile**

- BraGuia (Android) : Android app with guides for the city of Braga. (Java )
- BraGuia(Cross-Platform) : Same app in React Native. (React Native)

- **Networks and Operating Systems**

- DNS System : DNS System with hierarchical and distributed DBs. (Python)
- File Compression System : OS system calls to compress files in a server-client architecture. (C)
- Video Streaming Service: OTT network for content delivery. (Golang, ffmpeg)

- **Distributed Systems**

- Ride-Sharing Service : Server-Client architecture with concurrency and state management. (Java)
- Album-Sharing Service : Client (CRDTs, ZeroMQ, Java), Central Server (Erlang) and Data Server(DHTs, Java Reactive gRPC), each implementing different distributed structures.
- Extension on Raft Algorithm : extending Raft Consensus algorithm with Epidemic Propagation. (Python, Maelstrom)

- **AI, ML and Data Science**

- Car Racing : Advanced Search Algorithms in a Racing Game. (Python)
- Spotify Tracks and Solar Panels Dataset : Data Visualization, Preparation, Model Training and Value Prediction. (Python)
- Rent and Obesity Dataset : Data Visualization, Preparation, Model Training and Value Prediction. (Knome)

- **Other relevant Projects**

- High Performance Computing: optimizing a physics simulation from 200sec to 1.5 sec. (OpenMP, MPI, CUDA)
- Pacman Game : Designing and Implementing a game. (Haskell)
- Smart House : Smart-Devices management system in OOP. (Java)

# Skills

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**Programming** Python, Java, JavaScript, Typescript, C/C++, C#, Golang, React, Tailwind, MongoDB, MySQL, NoSQL

**Miscellaneous** Linux, Shell (Bash/Zsh),  $\LaTeX$ (Overleaf, Markdown), Microsoft Office, Git/Github, Figma Design, Adobe Creative Suite.

**Soft Skills** Team Leading, Teamwork, Problem-solving, Research, Ownership, Documentation, Communication, Presentation.

# Interests

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**Robotics** I have made small projects come to life with the help of an Arduino.

**Music and Podcasts** I love finding new music from other cultures or listening to my favorite podcasts on a daily basis.

**Movies and Series** I love to spend some of free time watching Movies or TV-Series.

**Sports** I practice on a daily basis one of the following activities : Running, Weight Lifting, Brazilian Jiu-Jitsu or Swimming.

# Languages

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**Portuguese** Native Speaker

**English** Advanced Speaker proficiency | Cambridge C1 (198 Score), B2 and B1 Certificates

**German** Beginner Speaker | A1.1 & A1.2 IUCM Certificates