



José Dias

Software Engineer.

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I am a Software Engineer currently developing .NET software applications while scaling database infrastructure and CI/CD pipelines to support modern industrial systems, with over 10 locations across the globe and more than 100 stations. I also contribute to teaching engineering courses for bachelor's students, an experience that helps me grow continuously while sharing knowledge with others. My interests lie in interactive, human-centred technologies. I want to create tools that make a real impact on how people experience and use software, and hope one day to achieve this.

Skills

C#, .NET 9	ASP.NET
PostgreSQL, ELK	C, C++
Azure DevOps	Python
AWS Services	OpenCV
JavaScript	Doxygen
TypeScript	Unix
Git	Pytorch, Tensorflow

Education

Master's in Electrical and Computer Engineering

Faculty of Engineering of the University of Porto

Aug, 2020 – Jul, 2022

Bachelor's in Electrical and Computer Engineering

Faculty of Engineering of the University of Porto

Sep, 2016 – Jul, 2020

Courses

Fundamentals of Scalable Data Science, Coursera

Object-Oriented Data Structures in C++, Coursera

Digital Signal Processing, Coursera

Certified Ethical Hacker, ISEP

Languages

English, Portuguese, Spanish

Work Experience

Software Engineer, Aumovio Engineering Solutions, Porto

Jan, 2025 – Present

Designing and implementing real-time monitoring systems and automated workflows for Industry 4.0 automotive factories.

Managing software releases and maintenance across 10+ production sites, ensuring an uptime of approximately 99%.

Technologies: .NET 9 • PostgreSQL • Angular 19 • Shell scripting • Azure DevOps • Git

Invited Assistant Professor, ISEP, Porto

Jan, 2025 – Present

Instructing undergraduate practical courses on contemporary systems with python, machine learning, image analysis.

AI Researcher, INESC TEC, Porto

Jan, 2024 – Jan, 2025

Optimising MIDI generative model, increasing model size capacity by 200%, and decreasing training time by 40%.

Technologies: Python 3 • PyTorch • OpenCV • Transformers • Bash • Git.

Software Engineer, Continental Engineering Services, Porto

Jan, 2023 – Jan, 2024

Embedded camera and radar development for the AUTOSAR communication and cybersecurity stack. Responsible for software integration on these teams,

Technologies: MISRA C • Python • DOORS • AUTOSAR • Git • Doxygen.

Software Engineer (Internship), Codavel, Porto

Aug, 2022 – Sep, 2022

Developed an HTTP interceptor for mobile to improve the quality of video streaming.

Technologies: Flutter • Java • Objective-C • Android SDK.

CTM Summer (Internship), INESCT TEC, Porto

Jul, 2021 – Aug, 2021

Created edge cases for deep reinforcement learning algorithms for Wi-Fi link adaptation.

Won the prize for "Best Internship".

AI Researcher, Faculty of Engineering of the University of Porto

Nov, 2021 – Jul, 2022

GAN-based system experiments to convert whispered speech to normal speech, boosting results by 64.5% over the baseline, using a self-supervised DiscoGAN.

Technologies: Python • PyTorch • GAN • MATLAB • Pandas • NumPy • Git • GitLab.