

Ivo Bispo

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I'm a full-stack engineer and ex-researcher specializing in backend and ai/ml. I build systems that handle complex logic behind the api so the frontend can focus on great user experiences. I aim for efficient, scalable, and reliable software.

SKILLS

Programming Languages: Java, C#, Python, Go

Technologies: Spring Boot, .NET, TensorFlow, Laravel

Tools: Linux, Git, Docker, Unity

WORK

Full Stack Engineer, Valtech - Innovation Team

Sep. 2024 – Present

Developing an AI-driven microservice for product recommendations in B2B e-commerce by integrating NLP-based Retrieval-Augmented Generation (RAG) to improve the accuracy and reliability of generative AI recommendation models.

Researcher, CIIC – Computer Science and Communication Research Centre

Feb. 2023 – Jun. 2024

Implemented data collection and data preprocessing from network traffic captures to build datasets, then developed a DNN and ML model for IoT intrusion detection, and applied explicable AI techniques to improve model transparency.

Full Stack Developer, WayAcross

Feb. 2020 – Jul. 2020

Optimized automated website template generation workflows and built an e-commerce application and product-focused CMS for online retail operations.

SELECTED PROJECT

Careline

 careline

An open source remote healthcare service that helps with daily health support, triage processes, and efficient drone delivery of prescribed medications.

SCIENTIFIC PUBLICATIONS

Papers

IoMT-TrafficData: Dataset and Tools for Benchmarking Intrusion Detection in Internet of Medical Things

Farm-flow dataset: Intrusion detection in smart agriculture based on network flows

Datasets

IoMT-TrafficData: A Dataset for Benchmarking Intrusion Detection in IoMT

Farm-Flow - AG-IoT Security: Intrusion Detection in Smart Agriculture Dataset

EDUCATION

Masters in Computer Engineering - Mobile Computing – Polytechnic of Leiria

Sep. 2023 – Jul. 2025

Grade: 18/20 - Awarded Merit Student

Bachelors in Computer Engineering – Polytechnic of Leiria

Sep. 2020 – Jul. 2023

Grade: 16/20