Ivo Afonso **Bispo**

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EDUCATION

B.S. in Computer Engineering, IPL - Polytechnic of Leiria Sep 2020 – currently
Relevant Coursework: Enterprise Application Architecture, Artificial Intelligence, and Algorithms and Data Structures.

Short Cycle (TeSP) in Web Development and Multimedia, *IPL – Polytechnic of Leiria* Sep 2018 – Jul 2020
Relevant Coursework: Web Server Programming and Client-Server Web Programming.
- Web Development and Multimedia (2nd Year Final Project) – Take a Book, Final Project Winners.
- Web Development and Multimedia (1st Year Final Project) – AgroExpansion, Final Project Winners.

IT Equipment Management Technician, *Val do Rio Vocational School* Sep 2014 – Jul 2017
Relevant Coursework: Microprocessor Architecture and Programming.
- Erasmus+, Scholarship – Merit Student, Portsmouth, England – From February to July 2017.

PROFESSIONAL EXPERIENCE

Student Researcher at IPL - Polytechnic of Leiria - CIIC Feb 2023 – currently, Leiria, Portugal
- Developed and implemented a Deep Neural Network to detect Cyber Attacks in IoT Devices, by selecting and processing data sets, identifying and applying machine learning techniques, and refining models.
- Prepared detailed scientific reports documenting research findings, including test runs, evaluation of alternatives, and analysis of results.

*Languages: Python. **Framework**: Tensorflow. **Github**: Link.*

Junior Full Stack Developer Intern at WayAcross Feb – Jul 2020, Leiria, Portugal
- Completed a full-stack web development project for an advertising company.
- Contributed to creating a user-friendly tool for building professional business websites through streamlined form completion and automatic template generation.

*Languages: PHP and JavaScript. **Framework**: Code Igniter.*

Assistant Professor and Tutor at University of Portsmouth Jun – Jun 2017, Portsmouth, England
- Invited to mentor students in developing an Android GPS tracking application.
- Assisted first-year university students in learning web development as a tutor.

CMS Developer and IT Technician Intern at Infonetmedia Ltd Feb – Jun 2017, Portsmouth, England

SKILLS

Proficient with: Java, PHP, and C#.
Familiar with: Python, C, SQL, and JavaScript.
Tools/Frameworks known: Linux, Git, Java EE, Android Studio, Laravel, and Unity.

SELECTED PROJECTS

MyGarden – *Final Grade: 20*
- Developed an IoT solution for a fully autonomous vegetable garden inside a container.
- Implemented sensors and actuators to collect data from the environment and control the system.
- Developed a web application using an API to communicate with the devices and visualize the data.
- Enhanced security with a facial recognition AI model and a card reader.

*Languages: Python, JavaScript, SQL, and PHP. **Framework**: Laravel. **Software**: Cisco Packet Tracer. **Github**: Link.*

Insured Asset Management System (IAMS) – *Final Grade: 20*
- Developed the back end of an enterprise application in Java EE to optimize the incident management process for insured goods.
- Integrated the application with insurers' APIs to fetch customer insurance contracts/policies.
- Streamlined the management of occurrences in insured assets, potentially saving time and resources for insurers, experts, repair services, and customers.

*Languages: Java. **Framework**: Java EE. **Software**: Docker, MockApi. **Github**: Link.*

Fastuga Driver – *Final Grade: 18,4*
- Developed an Android app for drivers similar to Uber Eats.
- Created backend system with Restful API using Laravel framework.
- Developed and implemented Restful API with Retrofit and Node.JS WebSocket server to communicate with Laravel database.
- Incorporated Google Maps API to display delivery paths and calculate distance and time of delivery.

*Languages: Java, PHP, and SQL. **Software**: Android Studio, Docker, Laravel, and Node.Js. **Github**: Link.*

Mummy Maze AI – *Final Grade: 16*
- Created AI entities that could independently solve the game and use various strategies for success.
- Implemented mechanics using multiple search algorithms for adaptability to different game roles.

*Languages: Java. **Github**: Link.*