BERNARDO SILVA

Computer and Telecommunications Engineering Graduate

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<u>LinkedIn</u> | <u>GitHub</u> | <u>Website</u>

PROFILE

A recent graduate in Computer and Telecommunications Engineering with a strong passion for transforming ideas into functional technological solutions, specializing in software development, artificial intelligence, and web development. I am actively seeking a junior-level opportunity to apply my knowledge in TypeScript, HTML, and Networking. A detail-oriented and autonomous learner, I possess strong critical thinking and problem-solving skills, and I am motivated to contribute to innovative projects and continuous technical growth.

EDUCATION

BSc in Computer and Telecommunications Engineering | October 2022 – July 2025

Instituto Politécnico de Viseu - Escola Superior de Tecnologia e Gestão de Lamego (ESTGL)

CERTIFICATIONS

- Junior Cybersecurity Analyst Career Path | 2025 - Cisco Networking Academy
- Network Technician Career Path | 2025 - Cisco Networking Academy
- Boost Your Productivity with Artificial Intelligence | 2025 - APDC & Google Portugal

ACADEMIC PROJECTS

AI-Powered Mobile App (Final Year Project) | React Native, TypeScript, Gemini API, Firebase

- Developed a mobile application for inventory stock management, from concept to implementation.
- Integrated the Gemini (Google AI) API for image-based product identification, achieving over 99% accuracy and reducing manual entry time by approximately 95%.
- Implemented core features such as user authentication, real-time stock notifications, and product statistics visualization.

Personal Website / Digital Portfolio | HTML5, CSS3, JavaScript, Bootstrap, Chart.js

- Developed a 100% responsive digital portfolio using HTML5, CSS3, and Bootstrap 5, focusing on intuitive navigation and a structured presentation of skills through components like Cards and Carousels.
- Implemented multiple interactive JavaScript features to enrich the user experience (UX), including a Dark Mode theme, real-time form validation, animations, and a reading progress bar.
- Integrated the Chart.js library to create dynamic and visually appealing charts, representing my technical skills.

Autonomous Otto Biped Robot (Telecommunication Systems) | Arduino (C++), Ultrasonic Sensors

- Programmed the behavior of a biped robot in C++ (Arduino environment), implementing the logic for movement and obstacle avoidance.
- Integrated hardware components, including 3D-printed parts, servo motors, and the HC-SR04 ultrasonic sensor for environmental detection.

TECHNICAL SKILLS

- Programming Languages: C, C++, C#, Java, Python, JavaScript, TypeScript
- Web Development: HTML5, CSS3, APIs REST
- Frameworks & Libraries: React Native, Expo, Bootstrap, Chart.js
- Tools: Git, Firebase, Figma, AutoCAD, CADited/itur, Adobe Photoshop/Premiere Pro
- Knowledge Areas: Computer Networks, Digital Logic, ITED Telecommunications

LANGUAGES

- Portuguese: Native
- English: B2 (Upper-Intermediate)
- Spanish: A2 (Basic)