

Simão Rodrigues

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EDUCATION

ISEL Instituto Superior de Engenharia de Lisboa

Bachelors Degree in Computer Engineering and Multimedia

Expected Graduation: June 2027

Lisboa, Portugal

- **Coursework:** Object-Oriented Programming, Data Structures and Algorithms, Databases, Web Development, Python Programming, Computer Systems
- **Academic Activities:** "Mentori@IPL" at ISEL , Institutional peer mentoring program promoting academic and social integration of students.

Certifications and Badges

Santander, Microsoft, Alura, NAU

- **Critical Thinking & Problem Solving by Santander Open Academy:** Online course focused on structured thinking, problem analysis, and decision-making strategies.
- **Practical AI for Marketing by Santander Open Academy (certificate pending):** Introductory course on practical applications of AI in marketing, including data-driven decision-making and automation concepts.
- **Google Gemini Developer Immersion by Alura:** Short immersive program introducing generative AI concepts and hands-on experimentation with Google Gemini tools and APIs.
- **Data Immersion with Python II by Alura:** Training focused on data analysis using Python, including data manipulation, visualization, and exploratory analysis.
- **Academy of Entrepreneurship by NOVA University Lisbon (NAU):** Online course covering entrepreneurship fundamentals, innovation, and business development.
- **Code with GitHub Codespaces by GitHub:** Hands-on module focused on cloud-based development environments, repository workflows, and VS Code integration using GitHub Codespaces.

PROJECTS

OSFR System

- **Desktop Work Order Management System:** Built a full CRUD system for service order management using Java and Maven, implementing user authentication, role-based access, and MySQL persistence, enabling structured creation, tracking, and management of work orders in a desktop environment.

WaveCanvas

- **Interactive Audio Visualization Web Application:** Developed a modular real-time audio visualization web app using JavaScript, Web Audio API, and HTML Canvas, supporting multiple audio sources (microphone and file input) and visualization modes, with dynamic UI controls and image export functionality.

Portugal Elections Dashboard

- **Interactive Data Visualization Dashboard:** Developed an interactive dashboard using Quarto to analyze official Portuguese government election data, transforming raw datasets into structured JSON for visualization. Integrated results from 21 political parties using geospatial maps, hierarchical charts, and dynamic tables to enable exploratory analysis of the 2024 legislative elections.

...and +4 projects on Github

SKILLS

Languages : Java, JavaScript, HTML/CSS, Python

Other tools and skills : GitHub, VS Code, IntelliJ IDEA, Bootstrap, Postman, Adobe Photoshop, Sony Vegas, Blender