

Alexandre Silva

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EXPERIENCE

Tech Consultant

September 2023 – 2025

Deloitte

Porto, Portugal

- Developed **banking functionalities** for a new youth-focused bank using **Java** and the **Spring Framework**.
- Enhanced system performance and modularity by implementing specialized banking logic with **AWS Lambda** functions in **Go**.
- Accelerated build and deployment processes by establishing robust CI/CD pipelines using **GitHub Actions** and **Docker**.
- Improved deployment speed and consistency by automating configuration management across environments with **Python** scripts integrated into the **CI/CD** pipeline.
- Ensured platform scalability and reliability by deploying microservices on **AWS** using **Docker** containers.
- Collaborated with cross-functional teams in a **Scrum** environment to discuss requirements and implement best practices, ensuring optimal solution delivery.

PROJECTS

AI-Powered Interior Remodeling Application | *Python, Flask, React, Tailwind CSS, PostgreSQL* 2024-2025

- Architected and developed a **full-stack application** enabling users to visualize AI-generated interior redesigns and receive smart product recommendations for detected objects.
- Crafted a responsive **frontend** using **React** and **Tailwind CSS**.
- Established seamless **frontend-backend communication** through RESTful APIs, with asynchronous processing via **Celery** and **Redis** to handle computationally intensive operations while maintaining responsive UX.
- Implemented end-to-end **user authentication** with **Firebase**, ensuring secure data access across the application stack while enabling personalized user experiences and content management.

Security Analysis of MIFARE Classic Smart Cards | *Android, NFC, Cryptography* 2023

- Conducted a security assessment of the **MIFARE Classic** smart card used for student residence access by utilizing an **Android** smartphone's NFC capabilities.
- Presented findings and **recommendations for improved security measures**.

EDUCATION

Faculty of Sciences - University of Porto

Porto, Portugal

Bachelor in Computer Science

Sep. 2020 – June 2023

- GPA of 16

Porto Accounting and Business School - ISCAP

Porto, Portugal

Bachelor in Accounting and Administration with a Master's in Auditing

Sep. 2017 – June 2023

Faculty of Informatics - Masarykova Univerzita

Brno, Czech Republic

Exchange student

Sep. 2022 – Feb. 2023

- Courses: **Advanced Security Topics**, **Microchip Controllers**, and **GPU Parallel Programming**.

CERTIFICATIONS

Google Cloud Digital Leader | *Google*

2024

- Gained foundational knowledge in Google Cloud Platform and cloud computing concepts

Java SE 17 Developer | *Oracle*

2023

- Validated proficiency in Java SE 17 and experience with core Java programming concepts

TECHNICAL SKILLS

Languages: Java, Python, Go, JavaScript, SQL

Frameworks & Libraries: Spring, Flask, React, Tailwind CSS, JUnit, Celery

Databases: PostgreSQL, MySQL, Firebase

Developer Tools: AWS, Google Cloud Platform, Git, Docker