

# 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.
- Leveraged **LangChain** and a **Retrieval-Augmented Generation (RAG) store** to provide **context-aware product recommendations**, dynamically retrieving relevant furniture and decor suggestions based on detected objects in uploaded room images.
- 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.

## 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, LangChain

**Databases:** PostgreSQL, MySQL, Firebase, VectorDB (FAISS / Pinecone)

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