



CAROLINA PEREIRA

COMPUTER SCIENCE STUDENT

ABOUT ME

Hi, my name is Carolina and I'm computer science student. I really enjoy a good problem and to find different ways to solve it. Studying in ISEL gave me confidence and leveraged my soft skills since I was constantly involved in group projects. I'm very eager to learn new things and always like a good challenge to put my skills at test.

CONTACT

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SKILLS

LANGUAGES

- Kotlin
- XML
- Java
- XSLT
- Python
- XQuery
- SQL
- XPath

TECHNOLOGIES

- Git
- Airflow
- Linux
- LaTeX
- Neo4j

LANGUAGES

- English
- Portuguese

EDUCATION

BSc in Computer Science and Engineering 2021 - Actual

Instituto Superior de Engenharia de Lisboa

I developed strong problem-solving skills, critical thinking and quick adaptation, combined with excellent organization, teamwork and responsibility

Socio-Economic Sciences 2019 - 2021

Escola Secundária Miguel Torga

I acquired a solid understanding of essential economic concepts such as supply and demand, inflation, economic growth, fiscal and monetary policies, combined with skills in critical analysis, organization and teamwork

EXPERIENCE

Web Summit 2022

Scholarship

I developed skills in networking, effective communication and innovation, gaining a strategic vision of the technology market

RELEVANT PROJECTS

Below is a selection of the most significant projects I've worked on, highlighting the key skills and experiences gained from each.

Information Systems

In this project, I advanced my knowledge of SQL by utilizing the language at an advanced level, including the creation and management of stored procedures, triggers, and functions through SQL/PSM. I developed skills in designing optimization strategies by understanding the indexing mechanisms available in database management systems (DBMS). Additionally, I gained a solid understanding of transactional mechanisms with ACID properties and their application in managing concurrency. I also built data access layers, ensuring efficient transactional control. Lastly, I enhanced my ability to write detailed technical reports, including comparative analysis, critical discussion, and the presentation of various solutions.

Mobile Device Applications - Gomoku

In this project, I demonstrated a comprehensive understanding of the programming model for a mainstream mobile development platform, specifically using Kotlin. I evaluated design decisions in the development of mobile applications that leverage both local device resources and remote resources. Throughout the project, I gained hands-on experience in designing, implementing, debugging, and deploying mobile applications, ensuring a robust and efficient user experience.

Web Applications - Gomoku

In this project, I designed, implemented, and tested Web APIs to expose a subset of functionalities of an information system, addressing aspects such as evolution, usability for different client types (e.g., native mobile applications), and security. Utilizing Kotlin and the Spring framework, I developed and tested medium to high complexity browser-based applications, leveraging Web APIs and frameworks for Single Page Applications (SPA). Additionally, I managed the deployment and operation of web applications and APIs, focusing on horizontal scalability and load balancing. I also identified and resolved performance issues in web applications and APIs. The project culminated in detailed technical reports, justifying the design decisions made throughout the development process.