

# Gabriel J. Rocha

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## Education

**Superior Polytechnic Institute of Gaya**  
*Bachelor in Computer Engineering*

*Sept 2023 – May 2026*

## Experience

**Software Engineer Intern**  
*Celfinet*

*Porto, Porto*  
*Summer 2025*

- Integrated two independently developed data pipelines (SQL-based and MongoDB-based) by creating a unified reporting solution.
- Designed and implemented an API for an automated email reporting system in C#, aggregating and transforming data from both SQL and MongoDB sources.
- Enabled end-to-end visibility of the pipeline process, improving clarity and communication between teams.
- Reduced manual data-checking by automating the status reporting across disconnected systems.

## Projects

**Chess**

[github](#) 

- Created a full-featured chess engine with 10+ core features (including special rules and check/mate detection), utilizing Gradle for automated build and testing.
- Tools Used: Java, Gradle

**Financial Management App**

[github](#) 

- Built a full-stack web application for small businesses to manage multiple locations and analyze financial performance.
- Tools Used: Python, React, SQLite

**Library Management System**

*2024*

- Developed a web-based library management system using PHP and Oracle DB/PL/SQL to provide distinct, role-based interfaces for users and administrators to manage books, borrowing, searching, and reservations efficiently.
- Tools Used: Oracle Database, PL/SQL, PHP

## Publications

**Comparative Evaluation of Angular and React in the Context of Web Development and Front-end Security: A Systematic Review**

*Dec 2024*

Carlos Sousa, **Gabriel Rocha**, José Monteiro, Miguel Magalhães

**The Role of Computational Parallelism in Artificial Intelligence Learning Models**

*July 2025*

Pedro Couto, **Gabriel Rocha**, Sérgio Lopes, Carlos Sousa, João Quintas

## Technologies

**Programming Languages:** C#, Java, Python, PHP, SQL

**Technologies & Frameworks:** React, .NET, Maven, Gradle, NUnit, PostgreSQL

## Languages

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**Portuguese:** Mother language  
**Spanish:** Beginner

**English:** Advanced  
**Russian:** Beginner

**French:** Intermediate