

# Gabriel J. Rocha

📍 Rua Monsenhor Fonseca Soares    ✉ gabriel.jdrocha@gmail.com    ☎ +351 915205671    in gabriel-rocha  
🔗 Gabriel Rocha

## Education

### Superior Polytechnic Institute of Gaya

Sept 2023 – May 2026

BS in Computer Engineering

- **Coursework:** Operating Systems, Cybersecurity, AI, Computer Architecture, Database, Mobile Computing, Networking, Software Project Management, Web Applications and Technologies

## Experience

### Software Engineer Intern

Porto, Porto

Celfinet

July 2025 – Sept 2025

- Integrated two independently developed data pipelines (SQL-based and MongoDB-based) by creating a unified reporting solution.
- Designed and implemented 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](#) 

- Developed a fully functional chess engine with 10+ core features, including move validation, check/checkmate detection, special rules like en passant/castling, and game state tracking.
- The game presents all the functionalities of the actual game while also keeping track of captured pieces.
- Utilized Gradle for build automation, streamlining development and testing processes.
- 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.
- Implemented data visualization features, including line graphs for income/outcome trends and bar charts for store profitability, using React and Python.
- Tools Used: Python, React, SQLite

### Library Management System

2024

- Created a web-based library management system to handle book and user management with distinct interfaces for users and administrators.
- Developed a relational database schema in Oracle and wrote PL/SQL stored procedures for efficient book borrowing and user management.
- Built a dynamic PHP-based web interface, enabling role-based access and features like book search and reservation tracking.
- Tools Used: Oracle Database, PL/SQL, PHP

## Technologies

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

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

## Languages

---

**Portuguese:** Mother language

**English:** Advanced

**French:** Intermediate