

Rui Barroso



Info

Software Engineer | Software Analyst Setúbal, Portugal • +351 919762092 • rmpereirab@gmail.com • [Personal Website](#) • [LinkedIn](#) • [Github](#)

Software Developer focused on building robust backend systems, primarily using **Go and Java**. Experienced in the full software development lifecycle, from academic mobile projects to enterprise-level regulatory reporting engines. Passionate about **systems architecture, language engineering (ASTs), and performance-critical applications**.

Experience

Software Analyst | Neyond | *June 2025 – Present*

- Developed a high-performance Java engine utilizing **ANTLR4** to parse EBA DPM syntax expressions into internal **Abstract Syntax Trees (AST)**.
- Engineered a processing engine to transform Excel-based financial templates into compliant **XBRL-CSV** outputs for the EBA taxonomy.
- Maintained and evolved a Java EE/PrimeFaces web application managing large-scale regulatory data submissions.
- Automated internal development workflows and environment setups using **Python** scripts.

Software Developer (Academic Intern) | Connecting Pixel | *July 2024 – Oct 2024*

- Built and optimized a mobile application using **Flutter** and **Node.js** for a real-time invoice offer-comparison tool.
- Implemented OCR-based text extraction from invoice images using **Google ML Kit**.
- Integrated authentication and notification systems using **Firebase**, Facebook Graph API, and Google OAuth2.
- Contributed to MVP delivery within an **Agile** team environment

Skills

Languages: Go, Java, C/C++, C#, TypeScript, JavaScript, Python, Dart.

Systems & Tooling: Docker, Git, ANTLR4, Abstract Syntax Trees (AST), Syntax Parsing.

Backend & Frameworks: Java EE, Spring, .NET, React, Flutter.

Databases: SQLite, Oracle SQL, PostgreSQL, SQL Server, MongoDB, Firebase.

Concepts: Data Structures (ADT), Concurrency, Memory Management, OSI Model, REST API

Education

BSc in Software Engineering | Instituto Politécnico de Setúbal 2024

Languages

Portuguese: Native

English: Proficient (C1 Listening/Reading, B1 Speaking/Writing).