RUAN LOPES

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EDUCATION

CLARETIANO

Systems Analysis and Development

Relevant Coursework: Commercial Programming, Computer Networks, Database

PROFESSIONAL EXPERIENCE

PROGRAMADOR.TV (Startup)   Remote

Volunteer .NET Developer   Jun 2024 – Nov 2024

- Optimized main platform performance.
- Improved code reliability and stability.
- Created and maintained unit tests with XUnit and Moq.

DESENBAHIA   Salvador, BA

Administrative Assistant Apprentice   Out 2019 – Jun 2021

- Supported administrative and operational routines.
- Organized and managed internal documents.
- Assisted in preparing administrative reports.

TECHNICAL EXPERIENCE

DOTA 2 ANALYTICS PIPELINE (TypeScript, SQL)

- Developed an analytics pipeline using **TypeScript**, **Prisma**, and **PostgreSQL**.
- Designed and implemented complex relational schemas (matches, heroes, positions, factions).
- Created high-performance aggregations for metrics such as pick rate, win rate, KDA, and economy.

CHAT SERVER PROTOCOL (C++)

- Implemented a chat server in **C++** with custom binary protocol.
- **Multiplexed I/O** via **epoll** with fully non-blocking operations and high connection volume.
- Architecture with global thread pool and sequential processing per client.

C# MICROSERVICES (C#, JWT, SQL, NOSQL)

- Developed multiple microservices in **C#** (**.NET**) using **PostgreSQL** and **MongoDB**.
- Implemented authentication with **JWT**, access control, and inter-service integration.
- Used **Entity Framework**, **MongoDB Driver**, and service-oriented architecture.

TECHNICAL SUMMARY

Technical Skills: Advanced in C#, Rust, JavaScript, HTML/CSS; Proficient in C++, Java, SQL, NOSQL, Python.
Frameworks & Libraries: .NET, Entity Framework, XUnit, NextJS, ReactJS, ExpressJS, tokio, Django, Spring Boot.
Tools: Git, Github, Linux, Docker, CMAKE, Supabase.
Software: Word/GDocs, Excel/GSheets, Outlook, Windows/Linux.
Languages: Fluent in Portuguese and English.