JOÃO GUILHERME DE PAULA ABREU

Java Back-end Internship | Spring Boot | REST APIs | PostgreSQL
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ABOUT ME

Computer Science student at Universidade Veiga de Almeida (UVA), currently in my second semester, with graduation expected in 2029. I build back-end services with Java and Spring Boot, develop REST APIs with PostgreSQL and test them with JUnit 5 and Mockito. Seeking a Java back-end development internship.

EDUCATION

Bachelor of Science in Computer Science 2026 – 2029 (Expected)
Universidade Veiga de Almeida — Rio de Janeiro, RJ

- Relevant coursework: Programming Logic, Algorithms and Data Structures, Object-Oriented Programming, Computer Architecture, Fundamentals of Systems.

SKILLS

Languages & Frameworks: Java 21, Spring Boot (primary); Python, TypeScript and React (basic)

Architecture & Practices: OOP, JPA/Hibernate, Maven, Clean Code, REST APIs, JUnit 5, Mockito

Database: PostgreSQL, SQL

Tools & Platforms: Docker Compose, Git, GitHub Actions, nginx, Linux (Ubuntu), AWS Lightsail, Cloudflare, Insomnia

Languages: Portuguese (Native), English (Intermediate)

PROJECTS

Tutoring Management System (Personal Project) — GitHub

- Built a REST API with Java 21, Spring Boot, JPA/Hibernate and PostgreSQL for an academic tutoring platform with admin approvals, sessions with limited spots and a waitlist.
- Modeled the business rules as state machines: every status change validates the current state, and invalid transitions return 409 Conflict.
- Implemented automatic waitlist promotion in a single transaction that promotes the next student, renumbers the queue without gaps and notifies the student.
- Wrote 61 automated tests (JUnit 5 + Mockito) with CI on GitHub Actions; the whole stack (PostgreSQL, API and React front end) starts with a single docker compose command.

Personal Portfolio — joaoabreu.dev | GitHub

- Deployed a bilingual (EN/PT) static site built with Astro and TypeScript to my own Ubuntu server on AWS Lightsail.
- Configured nginx (cache rules and security headers) behind Cloudflare, with HTTPS using an origin certificate.
- Set up a GitHub Actions pipeline that builds the site and publishes it over SSH (rsync) on every merge to main.

ADDITIONAL ACTIVITIES

- Technical article on dev.to: how I tracked down a CORS 403 error behind nginx in a Dockerized Spring Boot app.
- Practice data structures and algorithms on LeetCode, in Java.
- 13 Alura course certificates in Java and Spring (OOP, collections, exceptions, Spring Data JPA, REST APIs).