

Guilherme Santos Silva

Rocha Cavalcante – Campina Grande – Paraíba, Brazil

Phone: +55 83 9 8687 6701 / E-mail: guilhermesantosmj@gmail.com

LinkedIn: https://www.linkedin.com/in/guilhermee-santos/?locale=en_US

GitHub: <https://github.com/GuilhermexL>

PROFESSIONAL SUMMARY

Backend Developer with experience in Java, Spring Boot, NestJS, and PostgreSQL. Practical experience with RESTful APIs, WebSockets, CI/CD, and AWS services (EC2, S3, Lambda). Currently studying Systems Analysis and Development (IFPB), participating in initiatives such as bootcamps and projects focused on backend, cloud, and artificial intelligence. Passionate about clean architecture, automation, and continuous delivery.

EDUCATION

- **Associate's Degree in Systems Analysis and Development**, IFPB - Campus Esperança (2022 - present)

PROFESSIONAL EXPERIENCE

- **Jun/2024 - Jun/2025 – Research Student in VIRTUS CC.**
VIRTUS CC - UFCG | Campina Grande, PB, Brazil
 - Ensured precise sensor communication via UART/I2C, leveraging STM32CubeIDE and CubeMX for optimized development.
 - Developed C firmware for STM32, implementing concurrent tasks with FreeRTOS.
 - Applied software engineering best practices in embedded systems, contributing to robust solutions.
- **Apr/2024 - Dec/2024 – Backend Developer (Scholarship).**
Smartfarm IFPB | Campina Grande, PB, Brazil
 - Developed RESTful APIs with NestJS.
 - Implemented real-time communication with WebSockets.
 - Modeled PostgreSQL database focused on performance.
 - Participated in sprints and dailies using Scrum methodology.
 - Documented endpoints and technical processes in LaTeX.

PERSONAL PROJECTS

Personal Blog

ReactJs + Node.js + MongoDB | May 2025

- Built a complete CRUD for posts, categories, and users with JWT authentication.
- Developed a RESTful backend with Express and MongoDB, leveraging Mongoose for data modeling.

- Integrated automated documentation with Swagger for easy integration by new developers.
- Applied automated tests with Jest for critical routes and functionalities.

Library Management System

Java + Spring Boot + PostgreSQL | Aug. 2024 - In Development

- Designed a RESTful API with Spring Boot for managing books, authors, and users.
- Implemented robust security with JWT, access control by profiles, and strong authentication.
- Utilized Spring Data JPA for efficient data persistence and access in PostgreSQL.
- Included Swagger UI to facilitate testing and technical documentation.
- Developed with a test-driven approach using JUnit and Mockito, ensuring code reliability.

TECHNICAL SKILLS

- Java, JavaScript, TypeScript, C, Python, HTML, CSS
- Spring Boot, Nest.JS, Maven, Gradle
- PostgreSQL, MySQL, MongoDB
- AWS (EC2, S3, RDS, Lambda), Docker, CI/CD
- Git, GitHub, Postman, VSCode, IntelliJ
- Scrum, Kanban

CERTIFICATIONS & PROFESSIONAL DEVELOPMENT

- Re/Start AWS + AI - Cloud School (Mar. 2025 - Present)
- Bootcamp Santander Open Academy Backend with Java - DIO (2025)
- Bootcamp TONNIE with Java and AI + DevOps in Europe - DIO (2025)
- Scrum Fundamentals Certified - ScrumStudy (2024)
- Cybersecurity Awareness - IBSEC (2024)

LANGUAGES

- Brazilian Portuguese: Native Language
- English: Intermediate (B1)
- Spanish: Intermediate (B1)