

FERNANDO DAMASIO ALVES

Senior Software Quality Engineer (QA/SDET) | Hands-on Backend Development Experience

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PROFESSIONAL SUMMARY

Senior Software Quality Engineer with over 7 years of experience in test automation, API testing, and continuous integration for mission-critical financial systems. Previous professional experience as a backend developer using Java and Spring Boot at Foursys/Banco Next, complemented by recent hands-on development of complete, independently built products with Python, Node.js/Express, and MongoDB, including third-party API integrations. Brings rigorous software quality practices, legacy code analysis and maintenance, and production code review together with hands-on delivery of backend features while actively transitioning from QA to software development.

CORE SKILLS

Python • Java / Spring Boot • Node.js / Express • MongoDB • REST APIs (integration, debugging, and testing) • Postman / Newman • Git / GitHub / Code Review • CI/CD • Test Automation (Selenium, BDD/Cucumber, JMeter) • Dynatrace

TECHNICAL SKILLS

- Backend: Python (Flask), Java (Spring Boot), Node.js/Express — route development, business logic, and external API integration
- Integrations & APIs: third-party REST API integration and debugging (VirusTotal, Shodan, SSL Labs, HIBP, API Football), plus contract testing with Postman/Newman
- Frontend: practical working knowledge of React and JavaScript, using modern AI-assisted development tools (AI-enabled IDEs)
- Databases: MongoDB (primary database in independent projects), SQL (queries, data validation, and consistency testing)
- Quality & Testing: Selenium, BDD/Cucumber, JMeter, API testing, regression testing, and performance testing
- DevOps & Tools: Git/GitHub (branching, pull requests, code review), CI/CD, foundational experience with Docker/Docker Compose, and VPS deployment (PM2, Nginx, Certbot)
- Observability: Dynatrace (monitoring in a QA context)

PROFESSIONAL EXPERIENCE

Senior SDET / QA Engineer | Stefanini Brasil

Mar 2022 – Present | Large-scale Systems, Financial Services

- Develop and maintain automated test scripts in Java and Kotlin using Selenium, serving as a technical point of reference for quality across agile squads
- Design and implement BDD test scenarios (Cucumber/Gherkin) to ensure comprehensive coverage of mission-critical systems
- Perform load testing and performance validation with JMeter, as well as test automation and API validation
- Maintain third-party automation suites and legacy code using Git/GitHub for version control, and participate in code reviews, including work on an Itaú project
- Use Dynatrace to monitor and observe system behavior throughout test cycles

QA Engineer / Test Automation | Global Hitss

Dec 2019 – Mar 2022 | API Testing, Cloud Environments

- Automated and validated REST API tests in cloud environments, with a focus on data consistency
- Developed an internal Python tool that increased the team's data analysis efficiency by 70%, significantly reducing manual effort
- Implemented regression testing and critical validation processes for production systems

Software Developer | Foursys

Jan 2019 – Dec 2019 | Backend Development, Banco Next

- Developed Java and Spring Boot backend services for the Banco Next mobile application
- Contributed to the project's initial development phases, directly supporting the product launch

- Applied software development and version-control best practices within an agile squad

SELECTED PROJECTS

The Elland Wall — Community platform for Leeds United supporters

- Tech stack: React, Node.js/Express, and MongoDB
- Developed a post feature with a multimedia carousel, including video compression (FFmpeg), backward-compatible schema evolution, and production-safe file validation
- Implemented the Matchday feature, centralizing match logic and team crest handling in the backend through API Football integration

CyberAudit Pro (cyberaudit.com.br) — Multi-tenant cybersecurity auditing SaaS

- Tech stack: Node.js/Express, MongoDB, and Puppeteer, integrating with the VirusTotal, Google Safe Browsing, Have I Been Pwned, Shodan, and SSL Labs APIs
- Sole product developer, responsible for authentication, PDF report generation with a custom visual identity, and security score calculation
- Deployed and operated the product in production using PM2, Nginx, and Certbot on a Linux server (DigitalOcean)

LANGUAGES

Portuguese — Native

English — Intermediate (working proficiency in technical reading)

EDUCATION

- Software Quality Engineering — EBAC (British School of Creative Arts and Technology), Brazil
- Technical Diploma in Systems Analysis — UNINOVE, Brazil