

Daniel Fonseca da Silva

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EDUCATION

Estácio de Sá University

Bachelor (Information Systems)

Feb 2017 / Dec 2020

Overall GPA: 8.35

Project Management, Internet of Things (IoT), Computer Networks, Information Security, Data Modeling, Mobile Programming, Data Structures, Object-Oriented Programming (OOP), Software Engineering, Programming Logic, Cloud, Discrete Mathematics, Linear Algebra, Differential and Integral Calculus, Business Intelligence

EXPERIENCE

Meo Altice - Portugal

System Architect (Freelance)

Hybrid

Jul 2025 – Jan 2026

- Requirements analysis and gathering for existing and new systems, pull request approval and code review.
- Creation features for a CMS system that serves as a foundation for building various systems and landing pages.
- Configuration confluence documentation with n8n.
- Creation prompts to be used in the system to populate database migrations through Copilot.
- Creation workers and providers together with Redis for caching and messaging systems.
- Participation in alignment and planning meetings for new projects in the automotive and government sectors.
- Creation test pipeline with JUnit for unit testing and end-to-end testing.

Leroy Merlin - Portugal

Remote

System Architect (Freelance)

Dec 2024 – Jul 2025

- Designed a robust and scalable payment orchestration system, focused on modernizing and optimizing existing payment methods SIBS and Pyxis.
- Designed and implemented a payment method using queue from rabbitmq and rest api with parallel transactions using goroutines and mutex channel.
- Reduce the size of docker images using multi-stage.
- Configured Nginx for optimized routing and security.
- Developed API documentation using Swagger.
- Migrated messaging system from RabbitMQ to Google Pub/Sub for better scalability and maintainability.
- Used hibernate and gorm to create entities in the postgres database and also to manipulate queries when necessary.
- Used Log4j to create metrics and monitor the application's performance, I also used zap to create logs in golang for the devops team to monitor the deployment steps increasing productivity and up to 20%.

GT Group - Portugal

Remote

System Architect (Contract)

Sep 2023 – Dec 2024

- Temporary Technical Leadership: Led a team of developers on the Radar project by 3 months, ensuring on-time and on-budget deliveries.
- Planning and Management: Conducted daily meetings and activity planning with the Product Owner using Jira.
- Decision Making: Defined key architectural decisions for the Radar project, including database mapping and entity modeling for both GORM, Gin, Hibernate and JPA.
- Code Review: Reviewed code from junior developers via github pull requests to ensure quality and consistency.
- Cross-Department Alignment: Collaborated with various departments and stakeholders to align expectations and deliverables.
- System Architecture: Designed and implemented REST and gRPC services using Go and Java, along with frameworks such as Spring Boot.
- Created a token-based authentication system in Go with JWT, including token validation via browser cookies, cache management and rate limiting.
- Used gorm to create entities in the postgres database and also to manipulate queries when necessary.
- Helped define the modeling of postgresql entity relationships using figma and tested with datagrip, created communication with the driver and applied the singleton design pattern.
- AI-Powered Automation: Implemented the Radar system and Gil AI, reducing operational bottlenecks, increasing automation by 25%, and decreasing the need for managerial involvement.

Exosfera - Argentina

Hybrid

Software Engineer (Freelance)

Jan 2023 – Aug 2023

- Used Keycloak for the creation of realms, configuring multi-factor authentication, password recovery methods, social login, and access level definitions.
- Utilized MinIO for object storage of photos and videos generated by Vue.js-based front-end applications.
- Integrated payment systems with PayPal and Stripe using Spring Boot to handle API requests.
- Implemented payment queues with RabbitMQ and handled order status updates for items in e-commerce shopping carts.
- Achieved maximum possible unit test coverage using Jest on the front end and JUnit on the back end.
- Developed customizable calendar plugins for scheduling and reservation features.
- Used cloud storage (AWS) for hosting systems and e-commerce platforms.
- Created Docker images and stored them in Docker Hub.
- Created a CRM system to manage website editing and maintenance, enabling administrators to manage multiple websites simultaneously.
- Developed RESTful APIs using NestJS with Prisma and documented endpoints with Swagger.

Equiplano - Brazil

Software Engineer (Contract)

- Optimized Docker images by reducing their size, then deployed them to municipal Windows Server environments using Jenkins.
- Used Firebird for querying reports and inserting data into municipal client database tables.
- Developed interfaces and components with Angular and RxJS to manage asynchronous methods and event listeners.
- Applied HTML5 and CSS3, and performed tests using Jest. Utilized UI libraries such as Bootstrap (for the responsive grid system), Nebular, Flexbox, and DevExtreme (prebuilt component suite).
- Created SQL tables manually using OracleDB as the database management system.
- Applied Lombok to reduce boilerplate code in constructors, getters, and setters, resulting in cleaner, more concise code.
- Implemented logging with the SLF4J library, improving team debugging efficiency by 10%.
- Conducted integration testing with Mockito and unit testing with JUnit. Used Selenium on the UI layer to simulate user interactions with the system.
- Extensively used JasperReports for generating and customizing PDF reports in governmental legal processes.
- Maintained legacy systems using Spring Boot and Spring Data for database interaction with PostgreSQL and MySQL through Java objects.
- Applied the Open/Closed Principle by adding new endpoints without affecting existing ones.
- Refactored classes using inheritance and applied the Interface Segregation Principle to ensure clear separation of responsibilities.

Remote

Fev 2022 – Dec 2022

Wlabs.io - Brazil

Software Engineer (Freelance)

Remote

Oct 2019 – Jan 2021

- Creation of endpoints using Next.js, with Swagger documentation applied to the endpoints and tested using Postman and Jest.
- Data modeling using Prisma Schema, including the creation of relationships between tables.
- Implemented image compression logic and integrated AWS S3 into the project, which helped reduce image storage costs and allowed storing three additional photos in place of one.
- Added Google Maps integration for location using latitude and longitude.
- Developed logic to save avatars in base64 format in the database.
- Implemented application caching for frequent queries using Redis.
- Used RabbitMQ queues to enable communication and data transfer between microservices.

MzTech- Brazil

Remote

Fev 2016 – Oct 2019

Software Engineer (Freelance)

- Modernization of the legacy system from PHP to Java with Spring Boot.
- Used PrimeFaces and Thymeleaf for page creation, based on the identified needs.
- Database corrections and insertion of new information into MySQL using Spring Data.
- The implementation with GlassFish revealed major issues, so Tomcat was adopted instead.
- Used the Singleton pattern for the database connection table to ensure the same instance is always used.
- Applied threads to handle asynchronous method requirements.
- Created Docker images for both the application and the database.
- Performed manual deployment on the server.
- Created Linux scripts for data insertion and application startup.
- Approved, rejected or created new pull requests on GitHub.
- Added a pre-commit hook to the application and created a .dockerrcignore file.
- Created new branches for testing, production and development with environments set up according to project needs.

Projects

[DafonCV](#): A smart solution born from years of research and validation of a real pain point faced by millions: the overwhelming time spent creating and customizing resumes, especially to meet the strict criteria of automated screening systems like ATS.

Courses and Certifications

Go Basic: HackerRank (Certification)	2025
Devops Bootcamp: Fast Learning Path [all-in-one]: Udemy	2025
Terraform To Aws: Udemy	2025
(Golang): Exploring the Language of Google: Udemy	2024
Azure Cloud: Creating A Server With A Database To Receive An Application: Alura	2023
Azure: Manage Kubernetes With Aks And Acr: Alura	2023
Business Agility: Alura	2023
Infrastructure As Code: Preparing Machines On Aws With Ansible And Terraform: Alura	2023
Threads In Java 2: Advanced Concurrent Programming: Alura	2023
Microservices: Exploring The Concepts: Alura	2023
Spring Boot 3: Apply Best Practices And Secure A Rest Api: Alura	2023
Kubernetes: Deployments, Volumes And Scalability: Alura	2023
Spring Boot 3: Document, Test, And Prepare An Api For Deployment: Alura	2023
Kubernetes: Deployments, Volumes And Scalability: Alura	2023
Scrum Fundamentals Certified: Scrumstudy (Certification)	2019

LANGUAGES

English (Advanced)

Spanish (Advanced)

Portuguese (Native)

PERSONAL SKILLS

Analytical Thinking | Time Management | Strong Communication | Problem-Solving | Teamwork