

Daniel Fonseca da Silva

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EDUCATION

Estácio de Sá University

Feb 2017 / Dec 2020

Bachelor (Information Systems)

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

Hybrid

System Architect (Freelance)

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	Remote
Software Engineer (Contract)	Fev 2022 – Dec 2022
<ul style="list-style-type: none"> 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. 	

Wlabs.io - Brazil	Remote
Software Engineer (Freelance)	Oct 2019 – Jan 2021
<ul style="list-style-type: none"> 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
Software Engineer (Freelance)	Fev 2016 – Oct 2019
<ul style="list-style-type: none"> 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 .dockerignore 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)
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PERSONAL SKILLS

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