Rodrigo Fernandes do Carmo

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Summary

Full Stack Software Engineer with **18 years of experience** in software development, I also have a **Postgraduate in Full Cycle Architecture** and I have deep **expertise in Java**, along with advanced frameworks such as the entire ecosystem of **Spring**, **Hibernate**, **JPA**. My specialization extends to developing robust **backend solutions**, integrating modern **microservices patterns,** is complemented by my knowledge in frontend development, particularly with **Angular, React.js and Next.js.** Moreover, I´m skilled in creating and maintaining efficient **CI/CD pipelines** using tools like **Jenkins** and **Gitlab**.

My technical competence also includes the implementation and management of containers with **Docker** and orchestration with **Kubernetes**, facilitating the deployment and scalability of complex applications. I have a strong orientation towards agile development, with a particular focus on code quality and **implementing unit and integration tests** with **Junit** and **Mockito** to ensure the robustness and reliability of software.

I´m a professional dedicated to learning and applying the best industry practices, continually seeking to enhance my skills in emerging technologies and development methodologies. My ability to collaborate in multidisciplinary environments and my experience with a variety of tools and technologies make me an asset to any software development team.

Work History

Java Software Architect
Stefanini, Remote, Brazil   **September - 2021 – present**

Assigned to the government client Secretariat of the Environment of the State of Bahia SEIA/SEMA – BA

- Responsible for planning, deploying, and monitoring the migration from monoliths to microservices.
- Responsible for planning, structuring, and deploying new architectures based on microservices.
- Responsible for documenting all relevant information about the systems' architectures, as well as the entire infrastructure.
- Responsible for planning, structuring, and implementing training for teams, aiming for technical alignment and understanding of the new system architectures.
- Responsible for identifying, understanding, and addressing the pains and difficulties faced by teams.
- Responsible for assessing and monitoring the adherence to recommended technologies.
- Responsible for evaluating and monitoring the quality of the implemented code.
- Responsible for planning, structuring, and deploying indicators of performance, errors, and system failures through KPIs and dashboards.
- Responsible for evaluating, prospecting, and developing proofs of concept for new technologies.

- Responsible for planning, deploying, and monitoring the entire on-premise high-availability infrastructure to support all the agency's microservices applications.
- Responsible for planning, deploying, and monitoring all CI/CD infrastructure and processes.

Main Technologies: Java · Spring Boot · React · Next.js · Primefaces · JSF · JPA (Java Persistence API) · Hibernate · Microservices · REST · SOAP · Docker · Kubernetes · DevOps · Clean Architecture · Software Architecture · C4 Model · Event Storming · RabbitMQ · Kibana · Elasticsearch · Grafana · PostgreSQL · ArgoCD · Harbor · Prometheus · Sonarqube · Rancher Kubernetes Management · Gitlab · JUnit · Mockito

Assigned to the client BNB - Northeast Bank   March - 2023 – August - 2023

Software Architect responsible for all systems within the Credit Management and Debt Renegotiation Tower, with main activities including:

- Writing and updating the Architecture Documentation of all systems.
- Evaluation and suggestion of improvements in adherence, usage, and monitoring of pipelines.
- Assessment and enhancements in the architecture of current systems and solutions.
- Evaluation and monitoring of adherence to recommended technologies.
- Evaluation and monitoring of the quality of code produced by the factories.
- Identify, understand, and solve the pains and difficulties faced by the teams.

Results:
- Architectural and technological evolution of applications, allowing low coupling and high cohesion between applications. Making the change of technologies less traumatic and more independent.
- Implementation of tools that ensure adherence and continuity of the architecture of new and active systems.
- Implementation of unit tests to ensure the quality of the developed code.
- Technical focal point for all developers and factory architects.
- Evaluation and significant improvement in the speed of communication between systems and the database.
- Design, Definition, and elaboration of the entire architecture of solutions and systems for new projects.
- Training the development team with the best development practices.
- Planning, execution, and monitoring of migration from monolithic systems to microservices.

Main Technologies: Java · Spring Boot · React · Next.js · JPA (Java Persistence API) · REST · SOAP · Microservices · EJB · Docker · Kubernetes · OpenShift · DevOps · IBM MQ · Jenkis · Elasticsearch · Redis · Microsoft SQL Server · IBM Db2 · Sonarqube · Software

Architecture · Gitlab · Clean Architecture · Software Architecture · C4 Model · Event Storming · Scrum · JUnit · Mockito

Assigned to the client DELL Computers   **September - 2021 – March – 2023**

- Responsible for maintenance, improvement, and implementation of new microservices that support Telecom Contact Center applications, in the recovery, handling, and availability of data from Dell's record systems, as well as the management of customer context data and call routing.

Results

- Architectural and technological evolution of applications
- Migration of services and information persistence to cache database (Redis)
- Implementation of new features
- Training of new team members in the development team

Main Technologies: Java · Spring Boot · JPA (Java Persistence API) · Hibernate · Microservices · REST · SOAP · EJB · Redis · Docker · Kubernetes · JSON · Kibana · Elasticsearch · Sonarqube · Gitlab · Clean Architecture · Scrum · JUnit · Mockito

Senior Java Developer
Datainfo, Remote, Brazil   **April - 2021 – September – 2021**

Assigned to the client CAPES - The Coordination for the Improvement of Higher Education Personnel, part of the Ministry of Education

- Responsible for planning, deploying, and monitoring the migration from monoliths to microservices.
- Responsible for developing and integrating new features into existing applications.

Results

- Architectural and technological evolution of applications
- Migration monolith to microservices
- Implementation of new features
- Evaluation and significant improvement in the speed of communication between systems to systems and database.

Main Technologies: Java · Spring Boot · Angular · JPA (Java Persistence API) · Hibernate · Microservices · REST · SOAP · EJB · Docker · Kubernetes · OpenShift · Microsoft SQL Server · Sonarqube · Gitlab · Software Architecture · Scrum · JUnit · Mockito

Fullstack Software Engineer
Ibrowse Consulting and Computing, Remote, Brazil   **December - 2020 – April – 2021**

Assigned to the client SEDI-GO - Secretariat of Science, Technology, and Innovation of Goiás

- Responsible for planning, developing, and implementing the service scheduling system for in-person services provided to the citizens of the state of Goiás, aiming to facilitate citizen services during the pandemic period.

Results

- Implementation of new system
- Implementation of the system that simplifies the process of scheduling in-person appointments for the citizens of the state of Goiás.

Main Technologies: Angular · Microservices · REST · SOAP · Docker · Kubernetes · PostgreSQL · Gitlab · Scrum

Fullstack Software Engineer
Faros, Brasília, Brazil   **April - 2018 – September – 2018**

Assigned to the client CRECI-SP - Regional Council of Real Estate Brokers of São Paulo

- Leadership in the process of implementing and training the entire company in the agile Scrum methodology.
- Execution of the entire planning process, requirements gathering, implement and management of the business items and functionalities of CRECI-SP's new real estate portal.

Results
- 44% increase in team productivity, improved communication and transparency of activities, generating clarity in indicators regarding product management and team.
- Implementation of a public system for citizens interested in renting/buying real estate to be served by accredited brokers managed by the State of SP.

Main Technologies: Angular · Drupal · WordPress · Scrum · Microservices · Gitlab · REST

Senior Java Developer
Squadra Tecnology, Brasília, Brazil   **January - 2017 – March – 2018**

Assigned to the client MEC - Ministry of Education

- Responsible for planning and implementing the management system for the application and distribution of places among the accredited educational institutions

Results
- Implementation and availability of the system in record time, distributing through Pronatec more than 9 million places among the most diverse technical courses to educate Brazilians.

Main Technologies: Java · Spring Boot · Angular · JSF · RichFaces · Primefaces · JPA (Java Persistence API) · Hibernate · Microservices · REST · SOAP · EJB · Microsoft SQL Server · Sonarqube · Gitlab · Scrum · JUnit · Mockito

Other Experiences:

Senior Java Developer
CTIS, Brasília, Brazil   **August - 2013 – June – 2016**

Main Technologies: Java · Spring · Angular · JPA (Java Persistence API) · Hibernate · Microservices · REST · SOAP · EJB · Oracle · Sonarqube · Gitlab · Scrum · JUnit · Mockito

Senior Java Developer
Cast, Brasília, Brazil   **September - 2012 – August – 2013**

Main Technologies: Java · Spring · Angular · JSF · RichFaces · JPA (Java Persistence API) · Hibernate · JBoss Seam · EJB · MySQL · IBM Db2 · SOAP

Senior Java Developer
GESTAO TI, Brasília, Brazil   **March - 2012 – August – 2012**

Main Technologies: Java · Spring · JPA (Java Persistence API) · JSF · Hibernate · RichFaces · Struts · Microsoft SQL Server · SOAP

Senior Java Architect
Plano Consultoria Empresarial, Brasília, Brazil   **November - 2011 – March – 2012**

Main Technologies: Java · Spring · JSF · RichFaces · JPA (Java Persistence API) · Hibernate · SOAP · EJB · Oracle

Senior Java Developer
Cast, Brasília, Brazil   **September - 2010 – November –**
2011

Main Technologies: Hibernate · Java · EJB · Spring · JPA (Java Persistence API)

Java Developer
CTIS, Brasília, Brazil   **May - 2010 – September –**
2010

Main Technologies: Java · Spring · JSF · RichFaces · Struts · JPA (Java Persistence API) · Hibernate · EJB · SOAP

Java Developer
Poliedro, Brasília, Brazil   **November - 2009 – May –**
2010

Main Technologies: Java · Spring · JSF · RichFaces · Struts · SOAP · EJB · JPA (Java Persistence API) · Hibernate

Java Developer
Mirante, Brasília, Brazil   **December - 2008 – November –**
2009

Main Technologies: Java · Spring · JPA (Java Persistence API) · Hibernate · EJB · Struts · JSF · RichFaces · SOAP

Academic Education

01-2006 – 07-2018 Bachelor Degree, Information Systems, Brasília, Brazil
01-2023 – attending Postgraduate - Full Cycle Architecture, Remote.

Languages

English – Level advanced
Portuguese - Level native

Certifications

05-2017 – CSM – Certified Scrum Master

06-2017 – CSPO – Certified Scrum Product Owner

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