GILBERTO SANTOS

Software Architect | Team Lead | Mentor | Full Stack Developer

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PROFESSIONAL SUMMARY ———————————————————————————————————

As Full Stack Software Architect, I bring over 18 years of experience , certified developer and continuously evolving and adapting to new technologies. Presently, my focus lies on cutting-edge technologies such as **React JS, Java, Spring Boot, Node JS, Typescript, Nest Js, Serverless, Event-Driven Architecture, CI/CD, IaC, Maven, Gradle, Docker, Kafka, Microservices,** and **Cloud computing,** culminating in my certification as an **AWS Cloud Architect**. With proficiency in both English and Portuguese. I enjoy honing skills by working on OSS projects, using it to organize my professional knowledge, and sharing it with the community as a teacher, speaker and mentor

Currently, I hold the role of Principal Software Engineer, leading teams within an agile framework. My expertise centers on software architecture, model-driven development, clean code practices, pair programming, and a service-oriented approach to cloud computing. Proficient in various programming languages and platforms, I excel particularly in Java and Node JS. I am an avid advocate of Test Driven Development, prioritizing code maintainability and semantic coherence.

Beyond my professional endeavors, I am deeply passionate about mentoring aspiring developers and fostering collaboration within the development community. This commitment extends to my role as a lecturer for online web development courses, where I contribute to platforms like Dublin Coding Institute.

Personal passion for mentoring developers and collaborating with the dev communities. I do lecture for web development online courses (https://dublincoding.ie/about-us/)

AREAS OF EXPERTISE ——

Back-End: REST, Java, NodeJS, NestJS, Javascript, Typescript, Jest, Express.JS, PHP, Python, Go, PostgreSQL, Mysql, MongoDB, DynamoDB, Redis, Kafka, AWS Serverless, Event-Drive Architecture, Maven, Gradle, Npm

Infrastructure: Git, Github, GitActions, CI/CD, Linux, Docker, AWS, Cloud Formation, SAM, Apache, New Relic, Jenkins, JIRA

Front-End: React JS, Typescript, Remix, Next JS, Bootstrap, HTML5, CSS3, Javascript

Management: Agile Team, MOB, Pair Programming, 1:1, Code Review, JIRA

PROFESSIONAL EXPERIENCE —————————————————————————————————————

Principal Software Engineer | 27/05/2022 – Current
Globalization Partners, Boston, US, Remote, https://www.globalization-partners.com/
As a Principal Software Engineer , I'm responsible for leading the development team, designing and maintaining microservices using NodeJs, React JS, NestJs and AWS.
- Currently, I am spearheading the deployment of a Serverless application built upon Event-Driven Architecture. Additionally, I hold the responsibility of overseeing the company's knowledge academy, where we provide mentorship to developers, empowering them to achieve their objectives with utmost quality. Throughout this endeavor, I have developed a multitude of reusable code modules and implemented the concept of a Caching

Service utilizing Redis, with a steadfast commitment to Test-Driven Development (TDD). Moreover, I facilitate two weekly meetings – one dedicated to technical advancement and the other to scrum refinement – ensuring alignment and progress across teams.

- Managing 2 teams at same time, applying code reviews, 1:1, technical support, presenting.

- **Technologies used:** Java, NodeJS, NestJS, React Js NextJs, , Spring-framework (core, boot, batch, mvc), AWS, Restful Web Services, Maven, Gradle, Jenkins, Sonar, CheckStyle, Clean-Code, IntelliJ, Eclipse, JUnit, JIRA, Docker, Docker, Git, BitBucket.

Senior Software Engineer | 26/10/2020 – 26/05/2022
TD Securities, Toronto, Remote, https://tdsecurities.com
*As a Senior Software Engineer , I'm responsible for designing and maintaining microservices using **Java/Spring Boot** and **kafka** on **Cloud Microsoft Azure** using **Docker**.*
- We undertook the redevelopment of a legacy **.NET (C#)** desktop application named VIPER, designed to manage lending, securities, and shares within a banking environment, transitioning it to a microservices architecture. Leveraging **React JS**, we modernized the **Front-End UI** for enhanced user experience. Furthermore, as part of a newly formed team, we embraced the role of DevOps engineers, taking charge of seamless deployments across all environments including DEV, QA, and PROD. Our toolkit included **Jenkins**, **BitBucket**, **Maven**, **Gradle**, **Nexus**, **Docker**, and **Kubernetes**, ensuring efficient and reliable deployment processes..

- **Technologies used**: Java, React Js, Spring-framework (core, boot, batch, mvc), C++, Restful Web Services, Maven, Gradle, Jenkins, Sonar, CheckStyle, Clean-Code, IntelliJ, Eclipse, JUnit, JIRA, Docker, Jenkins, Docker, Git, BitBucket,, Azure Cloud.

App Tech Lead Engineer | 08/10/2017 – 01/04/2020
CitiBank, Dublin, Ireland, https://www.citigroup.com/citi/
Following my promotion to Vice President, I assumed the responsibility of leading a global development team comprising 10 developers, tasked with maintaining three of CitiBank's largest projects within the Account Services domain: eDocs, eSigner, and eSearch. These projects, spanning over a decade, faced significant quality issues and lacked standardized processes or CI/CD implementation.
- I spearheaded the transformation of these projects by implementing a new Continuous Integration (CI) pipeline and enforcing rigorous quality standards throughout the codebase. Through thorough code reviews and team collaboration, we achieved a remarkable 50% increase in product quality, significantly reducing the long-term maintenance costs associated with the eSuites suite of products, thus enhancing their overall business value.

- Furthermore, I took the initiative to lead the design and implementation of a groundbreaking Big Data and Machine Learning project. Leveraging Natural Language Processing (NLP) and Optical Character Recognition (OCR) technologies in Java, we developed a solution that enables the eSuites projects to accurately recognize scanned signatures within Citibank NFS repositories, enhancing data processing efficiency and accuracy.

- In addition to my technical contributions, I played a pivotal role in transitioning the team to an agile development environment, fostering collaboration, and driving continuous improvement initiatives. Moreover, I am deeply committed to mentorship, regularly engaging in 1:1 meetings, online sessions, and creating educational materials to empower junior developers and facilitate their growth.

- **Technologies used**: Java, Spring-framework (core, boot, batch, mvc), Hadoop ecosystem, HDFS, Apache Spark, Cloudera, Impala, Kafka, NoSql, Oracle DB, Restful Web Services, Maven, Gradle, Jenkins, Sonar, CheckStyle, Clean-Code, IntelliJ, Eclipse, JUnit, JIRA, uDeploy, TeamCity, Docker, Git BitBucket, Google Cloud.

Senior Software Engineer | 18/07/2017 – 04/09/2018
CitiBank, Dublin, Ireland, https://www.citigroup.com/citi/

As an Assistant Vice President and Technical Team Lead on the Data On-Demand team at CitiBank, I spearheaded initiatives as a Java Big Data Analyst, guiding a diverse team of 22 developers spread across global locations including Pune, Dublin, Shanghai, and New York. My role encompassed providing comprehensive support to enhance team productivity, address technical challenges, conduct functional tests, and implement DevOps practices.

- One of my notable contributions includes the creation of a transformation layer, a sophisticated framework designed to interpret metadata configurations stored in JSON files. This framework efficiently schedules tasks to read, transform, and inject data according to predefined rules encapsulated as Java classes, dynamically loaded as needed, and ultimately writes the transformed data into HDFS. Additionally, I successfully migrated the entire legacy codebase from Maven to Gradle, aligning with DevOps objectives and implementing automated pipelines to facilitate the seamless release of tagged software versions.

- In my capacity as a technical leader, I prioritize code quality by actively engaging in code reviews, providing mentorship, delivering presentations, conducting one-on-one sessions, facilitating performance reviews, and evaluating technical candidates during the interview process.

- **Technologies used**: Java, Spring-framework (core, boot, batch, mvc), Hadoop ecosystem, HDFS, Apache Spark, Cloudera, Impala, Kafka, NoSql, Oracle DB, Restful Web Services, Maven, Gradle, Jenkins, Sonar, CheckStyle, Clean-Code, IntelliJ, Eclipse, JUnit, JIRA, uDeploy, TeamCity, Docker, Git BitBucket, Google Cloud.

Senior Software Engineer | 12/2015 – 02/06/2017

IBM, Dublin, Ireland, http://www.ibm.com

I embarked on a rewarding journey with Watson Health, contributing to an innovative and technically challenging project team, leveraging my expertise in Java programming. In this role, my primary responsibility involved analyzing and translating intricate business requirements into robust technical solutions of the highest quality. Utilizing advanced programming techniques, rigorous testing methodologies, and efficient software delivery practices, I ensured the seamless alignment between business objectives and technical implementations.

- Engaged in the full software development lifecycle within an agile environment, I meticulously executed tasks spanning requirements analysis, design, project task allocation, and rigorous unit testing to ensure top-notch quality and timely delivery. Actively collaborating within project teams, I seamlessly balanced independent work with cohesive teamwork to drive our shared objectives toward successful project outcomes. Continuously honing my personal and professional skills, I remain committed to enhancing both individual and team capabilities, thereby contributing to IBM's ongoing efforts to elevate service excellence and effectively address challenges.

- Additionally, I provided invaluable support by conducting user requirements analysis, contributing to design enhancements, and undertaking Java programming tasks to elevate the functionality of a widely accessed web application, serving a user base of over 5 million worldwide.

- **Technologies used**: Java, EJB, Node.js, Selenium, Restful Web Services, H2 database, Gradle, Jenkins, Sonar, CheckStyle, Clean-Code, Eclipse, RSA, JUnit, RTC.

Senior JEE Consultant | 12/08/2013 – 07/04/2014

Montreal, Brasilia, Brazil, www.montreal.com.br

I played a pivotal role in supporting teams tasked with maintaining legacy software tailored to navigate the intricacies of Brazilian labor laws within a government framework. Stepping into this environment, I initiated transformative measures to enhance performance and fortify maintenance capabilities. Introducing innovative solutions, I implemented comprehensive unit tests to bolster reliability and efficiency, while meticulously adhering to design patterns to ensure reusability and semantic coherence in the codebase. This approach not only optimized the software's functionality but also streamlined the maintenance process, driving sustained success within the government sector.

- I spearheaded the introduction and cultivation of an agile environment within the team, facilitating regular meetings to impart knowledge on optimizing coding practices through short courses and engaging presentations. I ensured that the team remained up-to-date with the latest features and best practices in technologies such as JEE and Agile methodologies. Additionally, I championed the establishment of a streamlined knowledge management

process within the agile framework, fostering an environment where team members could freely share and acquire expertise relevant to ongoing sprints.

- Furthermore, I initiated a weekly development team gathering dedicated to the meticulous code review process. During these sessions, every team member is encouraged to propose new ideas and suggest best practices, collectively driving the team towards excellence in software development. Through these collaborative efforts, we not only improve the quality of our codebase but also foster a culture of continuous learning and innovation within the team.

- **Technologies used**: JEE 5, JSF, JQuery, EJB3, Hibernate(JPA), JAX-RS, JSON, DB Oracle, JBoss, Tomcat, Git, Maven, Jenkins, Linux environment, agile environment, SCRUM, TDD, Junit, TestNG Eclipse, JIRA, UML.

Senior Team Lead Architect JEE | 05/03/2013 – 08/08/2013
Cast, Brasilia, Brazil, www.cast.com.br

I provided steadfast support to a dynamic team of 12 individuals, leveraging cutting-edge technologies to drive innovation and excellence in our projects. Recognizing the importance of continuous skill development, I meticulously designed and implemented internal training programs aimed at enhancing our team's capabilities and ensuring the delivery of top-quality products.

- Dedicating dedicated time, often a half-day, to the exploration of new features and the enhancement of legacy systems, we prioritized both innovation and the improvement of existing solutions. By fostering an environment that values continuous learning and proactive improvement, we strive to exceed expectations and maintain a competitive edge in our industry.

- **Technologies used**: JEE 6, JSF2, CDI, JQuery, EJB, Hibernate(JPA), RESTful Services, JSON, DB Oracle, Maven, Tomcat, JIRA. Linux, TDD, JUnit, TestNG, Jenkins, Sonar, Eclipse, UML.

Senior JEE Developer | 13/08/2012 – 28/02/2013
Sapientia, Brasilia, Brazil, http://www.sapientia.org.br/

During my tenure in the Research and Development department, I held a pivotal role as a key player within the team. A significant aspect of my responsibilities involved direct interaction with customers, where I effectively communicated the advantages and rationale behind utilizing Java technology. Through these engagements, I played a crucial role in influencing the adoption of Java within our projects, ensuring alignment with industry best practices and technological advancements..

- I took the lead in architecting software solutions by leveraging Java EE for robust backend functionality, JSF for dynamic frontend interfaces, and Spring Boot to streamline backend operations. This architecture was meticulously designed to seamlessly integrate unit testing within a Test-Driven Development (TDD) environment, ensuring code quality and reliability from the outset. Additionally, I managed and configured continuous integration processes to facilitate smooth deployment and delivery cycles, thereby optimizing development workflows and enhancing overall project efficiency

- **Technologies used**: JEE 6, Spring Core, Spring Security, Spring MVC, JSF2, CDI, JQuery, EJB, Hibernate(JPA), JUnit, TestNG, Maven, SVN, RESTful Web Services.

Senior Java Developer | 23/07/2009 - 1/04/2011
Indra Politec IT, Goiania, Brazil, http://www.indracompany.com

I spearheaded the development of a groundbreaking software solution utilizing the Google Maps API to interface with a dashboard crafted using Adobe Flex. This innovative platform enabled users to pinpoint critical regions within cities requiring attention, such as infrastructure maintenance on streets and bridges. Leveraging Adobe Flex for the dashboard interface and Java with JSF for backend functionalities, I ensured seamless integration and robust performance across the system. Notably, this project adhered to the CMMI Level 3 environment, guaranteeing adherence to high-quality standards and effective project management practices throughout the development lifecycle.

- **Technologies used**: Adobe Flex 3, JSF1, JSP, Tomcat, JBoss, Maven, ANT, SVN.

Senior PHP Full-stack Software engineer. | 15/02/2007 - 30/03/2009
Indra Politec IT, Goiania, Brazil, http://www.indracompany.com
I possess extensive expertise in PHP and Java programming languages, complemented by proficiency in PostgreSQL and relational database management. My proficiency in PHP is particularly essential for effectively managing educational systems due to their large user bases. Additionally, my experience in Java enables me to develop robust Content Management Systems (CMS) tailored to meet specific project requirements. By leveraging these skills, I ensure the seamless operation and optimal performance of educational platforms and CMS solutions, catering to the diverse needs of users while maintaining high standards of functionality and reliability.

- **Technologies used**: Adobe Flex 3, JSF1, JSP, Tomcat, JBoss, Maven, ANT, SVN.

EDUCATION --

Degree, Software Development, PUC GO, College, *Goiania, GO* | 2012
MBA, Service Oriented Architecture, UNIEURO, *Brasilia, DF* | 2013

CERTIFICATIONS --

Oracle Certified Expert, Java EE 6 Web Component Developer
Oracle Certified Java 6 Programmer
AWS Certified Solutions Architect – Associate

PUBLICATIONS(are written in Portuguese) --

Walking by web path, Gilberto Santos**. Magazine FECOMERCIO-go,** 3/2006
Research about how companies can use network features to increase their business**.**

Building rich web applications with Java and Flex, Gilberto Santos.
Magazine Mundo Java, 2/2009
Research about how we can be connecting java and adobe flex framework by using BlazeDS.

VOLUNTEER--

Musician, helping in a Portuguese mass in Ireland, Church St Mary of the angels
Lecture, helping professional foreign to be successful in a job interview, SEDA College.
Lecture, helping new developers to learn more about web development, Dublin Code School

NATIONALITIES—---
- **Irish Citizenship (EU)**
- **Brazilian Citizenship (LATAM)**

RECOMMENDATIONS--
up on request