Thiago Sena

Resume

"Wisdom is not a product of schooling but of the lifelong attempt to acquire it." - Albert Einstein

Education

2010–2014 **Software Engineering**, *Federal University of Rio Grande do Norte*, Natal, Brazil.

Experience

2023–Present **Employment Relationship**, SOFICO GLOBAL.

As a Java software engineer at Sofico, I work in a dynamic environment dedicated to revolutionizing automotive financing, leasing, fleet management, and mobility solutions worldwide. Collaborating within an agile framework like Scrum, my team and I leverage cutting-edge technologies to drive innovation and develop robust software systems. At Sofico, we harness the power of the Quarkus framework along with a suite of tools including PostgreSQL, Oracle, and MSSQL databases, Kubernetes, Docker, Kafka Streams, Redis, and the Azure cloud platform to design comprehensive solutions tailored to meet the evolving needs of our clients. Additionally, we utilize Jenkins as a CI/CD pipeline, enabling us to deliver high-quality software products efficiently and effectively.

2016–Present **Partner**, NUCLEARIS - SPECIALIZED SOFTWARE IN NUCLEAR MEDICINE.

As a partner and software architect engineer at Nuclearis, I lead the development of an advanced ERP system for nuclear medicine. My role encompasses architectural design and strategic leadership, guiding the selection and implementation of diverse technology. We use various programming languages, including Java, Kotlin, JavaScript, GO, and Python.

Our ERP system incorporates a wide range of modern web technologies, from HTML and CSS to more contemporary frameworks like Angular, React, and Ionic, providing an intuitive and responsive user experience. We also utilize various backend frameworks and machine learning and artificial intelligence software such as Spring Boot, Quarkus, TensorFlow, and others. As relational databases, we use PostgreSQL or Oracle, and non-relational options like MongoDB, optimizing communication through protocols like HL7, RESTful, Graphql, and technologies like RabbitMQ for queues and Redis for caching.

We simplify deployment using Docker and Kubernetes, whether on-premise infrastructure or in the cloud, while establishing robust CI/CD pipelines with Jenkins, ensuring agile iterations and efficient resource delivery. Leveraging AWS and Google Cloud services, we optimize scalability and reliability, positioning Nuclearis at the forefront of technological innovation in the healthcare sector.

2021–2022 **Employment Relationship**, JAYA.TECH.

As a member of the PIX team at C6 Bank, I worked as a senior software engineer in the development of cutting-edge backend solutions, interfacing with a diverse range of services. Using Kotlin as our primary language and the Spring Boot framework, I designed robust and scalable systems to meet the demands of real-time PIX transactions.

My experience extends to ORM tools like Hibernate and Spring Data JPA, ensuring seamless integration with PostgreSQL databases. Additionally, I proficiently use Gradle for build automation and dependency management, Redis for caching, and Kafka for event streaming.

Embracing cloud-native technologies, I orchestrated solutions on AWS, leveraging services such as SQS, SNS, EKS, EC2, RDS, and S3 for performance and reliability.

By joining forces with multifunctional teams, I thrive in dynamic environments, driving innovation and delivering impactful results. My dedication to creating efficient and resilient software solutions has been instrumental in the success of the PIX initiative, contributing to the advancement of digital banking services.

2015–2016 **Employment Relationship**, RADTEC - MEDICAL PHYSICS SERVICES.

As a researcher and java full stack developer at Radtec, I participated in a pioneering project in the field of nuclear medicine from scratch to production. I used cutting-edge technologies, including Spring, JSF, Hibernate, Maven, Bootstrap 3, jQuery and PrimeFaces, I contributed to the creation of a sophisticated system tailored to meet the unique demands of the nuclear medicine. We used PostgreSQL as the database solution and Wildfly as the application server, hosted on the Linode VPS infrastructure.

2014–2017 **Employment Relationship**, ANOLIS TI.

As a software engineer at Anolis, I played a key role in assessing operational feasibility through meticulous analysis, problem definition and solution development on various projects. I used Java, PHP and C++ languages to architect solutions that addressed complex challenges. My responsibilities included documenting and presenting these solutions through comprehensive documentation, flowcharts, diagrams and clear code, facilitating understanding and collaboration among the team. In addition, I contributed to the preparation and installation of solutions by designing system specifications, adhering to standards and implementing robust programming practices, ensuring the delivery of high-quality software products tailored to meet the client's needs.

2014–2014 **Residency**, SOFTWARE ENGINEERING RESIDENCY - FEDERAL UNIVERSITY OF RIO GRANDE DO NORTE.

During my residency in software engineering, I immersed myself in Java software development, taking advantage of a diverse toolkit that included JSF frameworks, jQuery, Primefaces, Hibernate, MySQL and Spring. Operating in an environment supported by Tomcat application servers and taking advantage of AWS resources, I got involved in the development and implementation of robust software solutions. With this experience, I gained a deep understanding of modern software engineering practices and actively contributed to the advancement of technology in academia.

2013–2014 **Internship**, COMPENGI - CO.

As a fullstack developer at Compengi, I immersed myself in the innovative world of Grails software development, contributing to groundbreaking research and development initiatives specifically tailored to the tile and brick manufacturing sector. In this role, I actively participated in the exploration and implementation of new technologies, fostering a dynamic environment in which experimentation and creativity thrived. My responsibilities included developing robust solutions to enhance ERP functionality.

2012–2012 **Internship**, ESIG SOFTWARE & CONSULTING.

During my time as a software testing and quality professional at ESIG Software, I honed my skills to ensure robust software quality. Drawing on a comprehensive approach, I skillfully developed manual and automated tests using industry-leading tools such as JUnit, Selenium and Testlink. My role involved meticulous testing procedures to ensure the reliability and functionality of the management systems developed by ESIG Software.

2011–2014 **Researcher**, Federal University of Rio Grande do Norte.
Undergraduate Scholarship Program - Upper Level/BRA/Petrobras - PRH-22 - Training in Geology, Geophysics and Information Technology for Oil & Gas with emphasis on Cloud Computing.

Honor & Award

2017 Pfizer Innovation Award - Pfizer

2017 Reference Health Award - Healthcare Inovation Show

2015 Latin America Innovation Award - Healthcare Information and Management Systems

2014 *ACM SIGSOFT Distinguished Paper Award no 36th International Conference on Software Engineering (ICSE 2014)* for paper *Trading Robustness for Maintainability: an Empirical Study of Evolving C# Program*

Featured Skills

Dev Git, Kotlin, Java (Grails, JSF, CDI, EJB, JPA, Spring, Spring Boot, Quarkus), Javascript/Typescript (Node.js, Express, Meteor, Nestjs), Python (Django, Flask, TensorFlow), PHP (Laravel), Angular, React, Ionic, CSS, HTML, RESTful API, Graphql, Docker, RabbitMQ, Hibernate, MariaDB, PostgreSQL, OracleDB, SQL Server, Mongodb, Flyway

Test JUnit, Mockito, Selenium, PHPUnit, Jasmine, Mocha, py.test, pyUnit, cypress, Robot Framework

DevOps SO (Linux, Windows, OSX), Cloud (AWS, GCP, Heroku, DigitalOcean), CI/CD (Jenkins, Travis, Concourse, Github Actions), Containers (Vagrant, Docker, Kubernetes), Web Servers (Apache, Nginx, Tomcat, Wildfly, Netty), Monitoring (Monit, New Relic, Elastic, Prometheus, Grafana), Infrastructure as code (Terraform, Ansible), Security (Vault)

Publication & Communication Skills

2014 Oral presentation at *IEEE International Conference on Software Maintenance and Evolution (ICSME)* in Victoria/CA, with the following theme: *How Does Exception Handling Behavior Evolve? An Exploratory Study in Java and C# Applications.*

2014 Poster Presentation at *Annual Evaluation Meeting of the National Oil and Gas Agency* in Búzios/BR, with the following theme: *A Feasibility Analysis of Cloud Computing Platforms When Applied to the Oil and Gas Area.*

2012 Oral Presentation at *III Brazilian Congress of Software: Theory and Practice* in Natal/BR, with the following theme: *Developing applications for cloud platforms.*

Languages

English	**Intermediate** - **B2**	*Professional working proficiency*
Portuguese	**Native**	*Native or bilingual proficiency*