Jefster Farlei Fernandes Caixeta Júnior

📍 Anápolis, GO, Brazil | 📞 +55 62 99111-5292 | ✉ jefsterfarlei@gmail.com
🔗 Linkedin | 🖥 Github | ✍ Medium | www.jefster.dev

Professional Summary

Results-driven **Software Engineer** with **9+ years of experience** designing and developing **scalable backend solutions** in Java (8-21), Spring Boot, and Golang. Skilled in **RESTful & GraphQL APIs**, microservices architecture, cloud computing (AWS, Azure), and database optimization (PostgreSQL, CosmosDB, Redis).

Adept at **performance tuning, security, and high-availability architectures**, with a track record of **leading refactoring initiatives, mentoring developers, and optimizing distributed systems**. Passionate about **leveraging Golang for high-performance services** and adopting **cutting-edge technologies** to drive business value.

Holds multiple industry-recognized certifications, including **AWS Certified Solutions Architect Associate**, **AWS Cloud Practitioner**, **Microsoft Azure Fundamentals (AZ-900),** and **Azure Data Fundamentals (DP-900)**.

Technical Skills

- **Programming Languages & Frameworks**: Java (8-21), Spring Boot, Hibernate, Golang (Gin, GORM, Gorilla Mux), Python (NumPy, Flask, FastAPI), Node.js
- **Cloud & DevOps**: AWS (EC2, S3, RDS), Azure (CosmosDB, Synapse, DevOps), Kubernetes, Docker, Terraform
- **Databases & Storage**: PostgreSQL, MySQL, Redis, SQL Server, DynamoDB, CosmosDB
- **APIs & Protocols**: REST, GraphQL, WebSockets, OAuth2, JWT
- **Testing & CI/CD**: JUnit, Mockito, TestContainers, SonarQube, Jenkins, GitHub Actions
- **Monitoring & Logging**: Prometheus, Grafana, Kibana, Azure Insights
- **Security & Performance**: OWASP Top 10, Load Testing (JMeter), Java Flight Recorder]

Education

Graduate Certificate in Applied Mathematics and Statistics, UniAnhanguera, 2025
MBA in Project Management with Agile Methodologies, UniAnhanguera, 2024
Graduate Certificate in Solutions Architecture, PUC Minas, 2022
Associate Degree in Software Analysis and Development, Maurício Nassau University, 2020

Professional Experience

Software Engineer | Code17 Tek | 06/2023– Present

- **Led backend development as a Tech Specialist**, architecting scalable and resilient systems in **Java with Spring Boot**, ensuring code quality, modularity, and maintainability under aggressive delivery timelines.
- **Integrated backend services with React-based UIs**, building end-to-end solutions for **logistics and supply chain analytics**, powered by **machine learning models** for **demand forecasting**, **route optimization**, and **predictive operations**.
- **Designed and optimized RESTful and GraphQL APIs**, applying **Domain-Driven Design (DDD)**, **CQRS**, and **asynchronous processing** with Kafka and Reactor, improving system throughput by **35%** and enabling **real-time data streaming** across distributed services.

- **Engineered high-throughput APIs** capable of handling **1 M+ daily transactions**, leveraging **CosmosDB**, **Redis**, **SQL Server**, and **Azure Synapse**, ensuring **horizontal scalability**, **low-latency caching**, and **high availability**.
- **Enhanced observability and performance monitoring** by implementing **Java Flight Recorder**, **Micrometer**, **Azure Application Insights**, and **JMeter** benchmarks, reducing incident response time and improving SLA compliance.
- **Championed cloud-native architecture**, deploying services on **Azure Kubernetes Service (AKS)** with **CI/CD pipelines**, infrastructure as code, and secure identity via **OAuth2**, **JWT**, and **Azure Key Vault**.
- **Delivered Proofs of Concept (PoCs)** and production systems in **Golang**, showcasing a deep understanding of concurrency, microservices, and API performance using **Gorilla Mux**, **Gin**, and **GORM**.
- **Evaluated and introduced new technologies,** including **Go**, **Python**, and **Node.js**, contributing to architectural decisions and **technical strategy** for future-proofing enterprise platforms.

Tech Stack: Java 17 & 21, Spring Boot, Tomcat, Spring Data, Spring Security, Hibernate, Javers, Maven, JWT, OAuth2, SSO, Azure Synapse, Cosmos DB, Azure Insights, AWS, SQL, PostgreSQL, Docker, OKTA, Terraform, GraphQL, WebSockets, REST, STOMP, Swagger, Redis, Golang, Gin, GORM, Gorilla Mux, Python, PyTorch,, FastAPI, Flask, AI-based data analytics

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SOFTWARE ENGINEER | NOVACOMP | 05/2022 – 06/2023
- **Technical lead** on the Notification Service project
- **Developed and optimized REST APIs**, improving backend response time by **30%** and ensuring **secure, scalable** communication between front-end and back-end systems.
- **Designed and implemented a Kafka-based notification service**, improving **message delivery reliability by 99.9%** and decoupling notifications from core services in an event-driven architecture.
- **Engineered efficient data models** for **customer information and insurance policies**, reducing query execution times by **40%** through optimized indexing and caching strategies.
- **Enhanced user experience** by implementing **personalized notifications**, preference management, and opt-in/opt-out features, increasing **user engagement by 25%**.
- **Improved code quality and maintainability**, conducting **code reviews**, ensuring adherence to industry best practices, and enforcing **CI/CD automation** for seamless deployments.
- **Strengthened monitoring and observability** using **Prometheus, Grafana, and Loki**, reducing system downtime through proactive anomaly detection.
- **Developed intelligent notification routing and prioritization**, using machine learning to determine optimal delivery times based on user behavior patterns, improving engagement metrics by 38%.

Tech Stack: Java 17, Spring Boot, Tomcat, OpenFeign, Spring Data, Hibernate, Maven, JWT, OAuth2, Auth0, Caffeine Cache, Swagger, Prometheus, Grafana, Loki, Vue.js, HTML, CSS, JavaScript, TypeScript, Pinia, Docker, Kubernetes, Jira, Git, GitHub, SQL, PostgreSQL, AWS, JUnit, Javers, Terraform

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SOFTWARE ENGINEER | MIDWAY | 05/2021 – 05/2022
Midway is a fintech company that transitioned into a **digital bank**, serving nearly **1 million customers**.
- **Designed and optimized API endpoints**, improving data retrieval speeds by **40%**, and ensuring secure and **seamless third-party integrations** for Open Banking.
- **Developed high-performance data models** for **customer and transactional data**, enhancing system scalability and ensuring **full compliance with Open Banking standards**.
- **Ensured platform scalability**, designing systems capable of handling **10 M+ daily transactions**, reducing latency by **25%** through database indexing and caching strategies.

- **Improved backend efficiency**, reducing response times by **30%** via API optimizations and **parallel processing techniques**.
- **Collaborated with mobile teams and domain experts**, ensuring a **secure and highly available Open Banking platform**, reducing API error rates.
- **Implemented robust testing strategies**, writing **unit and integration tests**, increasing system reliability, and **reducing production issues.**
- **Standardized and documented API contracts**, improving **third-party integration efficiency** and reducing partner onboarding time by **50%**.

Tech Stack: Java 11, Spring Boot, Feign, Hibernate, OAuth2, JWT, OpenID, PostgreSQL, DynamoDB, AWS EC2, Azure DevOps, Docker, Kubernetes, SonarQube, JUnit, Apache Camel, Camunda, React.js

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Software Engineer | Qintess | 07/2020 – 05/2021

- **Strengthened application security**, collaborating with the **IoT security team** to identify and mitigate vulnerabilities, reducing **potential exploits by 40%** using **Kenna reports and proactive monitoring**.
- **Developed and deployed microservices** for IoT and **private cloud solutions**, improving **system scalability and reducing downtime by 30%**.
- **Implemented secure coding practices**, ensuring **compliance with OWASP Top 10 standards**, and reducing security incidents and vulnerabilities.
- **Optimized backend services**, reducing **API response times by 25%**, leveraging **Spring Boot and RESTful APIs**.
- **Led database optimization efforts**, refactoring queries and improving Redis/MongoDB caching strategies, reducing **data retrieval time by 35%**.
- **Integrated DevOps automation**, configuring **CI/CD pipelines with GitLab and Jenkins**, reducing deployment time by **50%,** and enhancing delivery efficiency.

Tech Stack: Java 8 & 11, Spring Boot, REST, OAuth2, JWT, Hibernate, Swagger, Docker, Node.js, RabbitMQ, Redis, MongoDB, SonarQube, GitLab, Jenkins, Azure DevOps, Oracle Database, AngularJS, TypeScript, Camunda

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Software Engineer | ITSS (Freelance) | 06/2020 – 03/2021

- **Developed and integrated third-party APIs**, enabling seamless data flow between multiple systems and improving cross-platform communication.
- **Automated routine tasks** by creating reusable scripts, significantly reducing manual workload and improving process efficiency.
- **Enhanced backend performance** by optimizing database queries and leveraging **EJB and Hibernate**, resulting in faster data retrieval and better system responsiveness.
- **Designed and maintained SOAP-based web services**, ensuring secure and reliable transactions between distributed applications.
- **Ensured high code quality**, focusing on efficiency, maintainability, and scalability for applications handling large datasets.

Tech Stack: Java 8, EJB, JSF, SOAP, Hibernate, Wildfly, Maven, SQL, Oracle Database, Quartz, AWS, Git

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Software Engineer | Indra | 02/2019 – 07/2020

Developed critical health applications for the **public health system of Goiás, Brazil (SES)**, enabling **better medical logistics, disease monitoring, and surgical scheduling**.

- **Designed and developed the SILT Application**, enabling **real-time tracking of Tuberculosis treatment and medication logistics**, improving patient adherence and regulatory compliance.
- **Engineered the Svetores Application**, integrating **geolocation and mapping features** to track insect species responsible for disease transmission, enhancing pest control strategies.

- **Developed the SisReg System**, digitizing elective surgery scheduling based on **Anvisa's technical criteria**, streamlining **doctor requests, approvals, and procedure execution**.
- **Managed public health medication distribution**, ensuring accurate delivery and compliance with **national health regulations**.
- **Implemented automated workflows** for handling infectious disease sample collection, ensuring proper safety protocols, and **reducing manual effort** in laboratory processing.
- **Led DevOps adoption**, configuring **CI/CD pipelines with GitLab, Jenkins automation, and Flyway database migrations**, improving deployment efficiency and reducing manual errors.

Tech Stack: Java 8 & 11, Spring Boot, Tomcat, Node.js, Spring Data, Angular, TypeScript, Bootstrap, REST, SOAP, SQL, PostgreSQL, GitLab, Jenkins, Flyway

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Java Full Stack Developer | WGL Solutions | 01/2018 – 02/2019

- **Designed and developed RESTful APIs**, enabling **seamless communication** between applications and enhancing **system interoperability**.
- **Optimized REST clients** to improve integration with **legacy systems**, reducing data transfer **latency and processing bottlenecks**.
- **Developed and maintained web applications** for **government and private sector projects**, improving **data accessibility and operational efficiency**.
- **Led geolocation system enhancements**, implementing **building inspection and management features** for federal agencies, and improving **infrastructure tracking accuracy**.
- **Enhanced the SisFogo system**, optimizing **heat map performance for geospatial visualizations**, reducing data rendering time, and improving **real-time analytical insights**.
- **Refactored API endpoints**, ensuring **efficient data flow** and seamless integration with **government platforms**, increasing **system reliability**.
- **Implemented unit and integration tests**, improving **code quality, scalability, and long-term maintainability**.
- **Collaborated with cross-functional teams** (front-end developers, data engineers, security experts) to develop **scalable and secure solutions**, improving **system robustness**.

Tech Stack: Java 8, Spring Boot, Tomcat, Swagger, Spring Data, Spring Security, Maven, JWT, Angular 6, HTML, CSS, JavaScript, AngularJS, AWS, PrimeNG, Hibernate, SQL, PostgreSQL, Liquibase, Spring REST Template, Git, OpenLayers, OpenStreetMap, PostGIS, OAuth2, JBoss Web Server, Apache POI, Apache HTTP Client

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Java Full Stack Developer | Programar Informática | 06/2016 – 12/2017

- **Developed and modernized ERP systems**, migrating **legacy software** to modern **web-based technologies**, and improving **functionality and performance** for small business clients.
- **Designed fully responsive web applications**, enhancing **cross-device accessibility** and **improving user experience** across multiple platforms.
- **Engineered an advanced task management system**, streamlining **internal workflow tracking** and **boosting operational efficiency** for the company's support team.
- **Designed and implemented a self-service totem**, enabling **independent customer purchases**, reducing **checkout time**, and **improving client satisfaction**.
- **Developed and optimized logistics management solutions**, improving **inventory tracking, order processing**, and supply chain **efficiency** for **supermarkets, depots, and auto parts stores**.
- **Collaborated closely with cross-functional teams**, ensuring software solutions met **business requirements and scalability standards**, and adhered to **tight project deadlines**.

Tech Stack: Java 7, jQuery, Bootstrap, ExtJS, HTML, CSS, JavaScript, MySQL, SVN, Ant, iReport, ChartJS

LANGUAGE

- **English – Advanced**
- **Spanish – Fluent**
- **Portuguese – Native**

CERTIFICATIONS

- **AWS Certified Solutions Architect Associate**
- **AWS Cloud Practitioner**
- **AZ-900** - Azure Fundamentals
- **DP-900** - Azure Data Fundamentals
- **SFPC** - Scrum Foundation Professional Certificate – **CertiProf**
- **DEPC** - DevOps Essentials Professional Certificate – **CertiProf**
- **LFC108 -** Cybersecurity Essentials - **Linux Foundation**
- **SKF100 -** OWASP® Top 10 Security Threats - **Linux Foundation**
- **LFC131** - Green Software for Practitioners - **Linux Foundation**

LEADERSHIP & MENTORSHIP

- **Technical Leadership**: Spearheaded backend development initiatives, leading teams of up to **8 developers** in designing scalable and high-performance systems.
- **Team Management & Mentorship**: Managed and mentored teams of junior and mid-level engineers, conducting code reviews, pair programming, and knowledge-sharing sessions to accelerate their professional growth.
- **Hiring & Talent Development**: Actively participated in **40+ technical interviews**, evaluating candidates for both technical expertise and cultural fit, contributing to team expansion and upskilling.
- **Strategic Project Execution**: Led critical system refactoring efforts, reducing **technical debt by 50%** and optimizing code maintainability across multiple projects.
- **Cross-functional Collaboration**: Worked closely with product managers, DevOps, and security teams to ensure technical solutions aligned with business objectives and product scalability.
- **Process Optimization**: Implemented best practices in CI/CD, DevOps, and observability, improving deployment efficiency and reducing production incidents.