Jefster Farlei Fernandes Caixeta Júnior

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Professional Summary

Results-driven Software Engineer with **9+ years of experience** designing and developing **scalable backend solutions** in Java (8-21), Spring Boot, and **Python**. Skilled in **Restful & GraphQL APIs, micro-services 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, Scala,, Python FastAPI, Node.js

Cloud & DevOps: AWS (EC2, S3, RDS), Azure 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

Assigned to **Tiger Analytics** as a third-party contractor for **Pepsico**

- Led backend development as a **Tech Specialis**t, architecting scalable and resilient systems in **Java** and **Python** using **Spring Boot** and **Fast API**, ensuring code quality, modularity, and maintainability under tight delivery schedules.

- **Built backend services integrated with React-based UIs**, delivering 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**, **Reactor**, **Fast API, and SQLAlchemy**, increasing system throughput by 35% and enabling real-time data streaming across distributed services.

- **Engineered high-throughput APIs** capable of handling over 1M daily transactions, leveraging **CosmosDB**, **Redis**, **SQL Server**, and **Azure Synapse**, ensuring horizontal scalability, low-latency caching, and high availability.

- Improved observability and performance monitoring with **Java Flight Recorder**, **Micrometer**, **Azure Application Insights**, and **JMeter** benchmarks reduced incident response time and improved SLA compliance. Championed cloud-native architecture, deploying **Azure Kubernetes Service (AKS)** services with CI/CD pipelines, infrastructure as code, and secure identity using **OAuth2**, **JWT**, and **Azure Key Vault**.
- Delivered production systems and PoCs in **Go**, demonstrating expertise in concurrency, microservices, and API performance with **Gorm** and **Gin**.
- **Evaluated and introduced new technologies**, including **Go**, **Python**, and **Node.js**, contributing to architectural decisions and technical strategy for enterprise platform modernization.

Tech Stack: *Java 17 & 21, Scala, Spring Boot, Typescript, Go, Gorm, Tomcat, Spring Data, Spring Security, React, Redux, Hibernate, Javers, Maven, JWT, OAuth2, SSO, Azure Synapse, Cosmos DB, Azure Insights, AWS, SQL, PostgreSQL, Docker, OKTA, Terraform, GraphQL, WebSockets, REST, STOMP, Swagger, Redis, Python, PyTorch, FastAPI, Flask, AI-based data analytics*

SOFTWARE ENGINEER | NOVACOMP | 05/2022 – 06/2023

Assigned to **Big Ticket Platform** as a Contractor

- **Served as technical lead for the Notification Service project**, developing and optimizing REST APIs and **reactive services with Scala and Akka**, reducing backend response time by 30% and ensuring secure, scalable communication between front-end and back-end systems.
- **Designed and implemented** a **Kafka** and **Akka-based** notification service, improving message delivery reliability to 99.9% and d**ecoupling 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** through rigorous code reviews, best practice enforcement, and C**I/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 algorithms** using machine learning, determining optimal delivery times based on user behavior patterns and improving engagement metrics by 38%.

Tech Stack: *Java 17, Scala, Spring Boot, Akka, Akka Streams, 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*

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*

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

Assigned to **Dell CloudIQ** as a contractor

- **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 micro-services** 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*

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*

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

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

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**
- **Microsoft Azure Fundamentals (AZ-900),**

- **Azure Data Fundamentals (DP-900)**
- **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.