Victor Carvalho

Software Development Engineer | Brazilian. Sao Paulo - Sao Paulo, Brazil

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Professional Summary

I am a Software Development Engineer with over 5 years of experience in full-stack development, most of the time focused on back-end. With a strong foundation in object-oriented programming and distributed systems, I have a proven ability to embrace new technologies and methodologies to effectively address complex challenges. My expertise lies in designing scalable distributed systems and architecting solutions using Java, Spring Framework, and Camunda BPM. I specialize in creating workflows and systems that align with business objectives and enhance customer experience.

Technical Skills

- **Programming Languages:** Java (7, 8, 11, 17, 19 and 21), Groovy, Python, TypeScript, JavaScript, PHP.

- **Frameworks and Tools:** Spring Framework (Boot, Batch, Data, Security, Web, ...), Mockito, JUnit, Camunda BPM, React, Redux, React Native, Expo, NextJs, NodeJs, Material UI, Tailwindcss, HTML, CSS, Laravel.

- **Cloud:** Docker; CI/CD; Containers; Apache Kafka; RabbitMQ; Datadog; Grafana; Dynatrace; Sonar; AWS - Lambda, S3, API Gateway; GCP – Cloud Run, Firebase; Jenkins.

- **Development Practices:** Agile Methodologies, Object-Oriented Design, RESTful APIs, Microservices Architecture, Event-Driven Architecture, TDD, BDD, MVC, SOLID, Clean Architecture.

- **Database Systems:** Relational (PostgreSQL, MySQL, SQL Server), Non-relational (MongoDB, Cloud Firestore)

- **Version Control:** Git.

Professional Experience

BRQ Solutions

Senior Software Development Engineer *Mar 2025 – Present*

Consultant at Rede-Itaú *Jul 2025 – Present*

Skills: Java: 11 and 17 – Spring Framework, Maven, JUnit, Mockito; Python 3, SonarQube, GitHub Actions, AWS Lambda, AWS EC2.

Consultant at Santander *Mar 2025 – Jul 2025*

Skills: Java: 7, 11 and 17 – Spring Framework, Maven, JUnit; Apache Kafka; SonarQube, Jenkins.

- Build Java 11/17 microservices with Arsenal (Santander's proprietary Spring-based framework), integrating them through message queues and RESTful APIs.

- Legacy monolith & JSP BFF: Maintain and extend a Java 7 monolithic FX-banking system who's embedded JSP pages serve as the legacy Backend-for-Frontend (BFF), safeguarding stability while incrementally integrating it with newer microservices.

- Work closely with multidisciplinary squads (backend, frontend, QA, DevOps, and business stakeholders) to deliver high-impact features in Agile/Scrum workflows.

- Safeguard code quality with parameterized unit tests, thorough peer reviews, and automated CI pipelines.

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Backend Development Engineer *Nov 2023 – Mar 2025*

Consultant at Agibank

Skills: Java: 17, 19 and 21 – Spring Framework, Gradle, Mockito, JUnit; Groovy, Camunda BPM, Apache Kafka, RabbitMQ, SonarQube, Jenkins, Liquibase, GitLab CI, Grafana, OpenSearch, Dynatrace, AWS S3, AWS Lambda, Docker, Postgres, MySQL, MariaDB, Oracle, MongoDB, Vault.

- Built resilient Spring Boot services in Java 11/17, exposing RESTful APIs and integrating with message queues.

- Designed and implemented Camunda BPM workflows that reduced manual effort and improved SLAs for loan-origination and payment flows.

- Partnered with frontend, QA, DevOps, and business analysts in Agile/Scrum ceremonies to deliver customer-centric features on schedule.

- Maintained high code quality through unit/integration tests, peer reviews, and CI/CD checks in GitLab pipelines.

Visto Tecnologia

Junior Software Developer *Feb 2021 – Nov 2023*

Skills: Java: 8, 11 and 21 – Spring Framework, Gradle; Python 3, Groovy, NodeJs, ReactJs, TypeScript, Camunda BPM, Apache Kafka, RabbitMQ, GitLab CI, Grafana, Datadog, GCP, Docker, Postgres, MySQL, MariaDB, MongoDB.

- Designed and developed custom applications using Java, Python, and TypeScript.
- Implemented front-end solutions with React and Redux, improving user experience.
- Developed and maintained workflows with Camunda BPM, streamlining automation processes.

Junior Support Analyst *Jul 2020 – Jan 2021*

- Analyzed platform requirements and provided technical support to users.

- Maintained and updated the Visto platform to enhance reliability.

Support Analyst Intern *Mar 2019 – Jun 2020*

- Conducted technical analysis and maintenance tasks for the Visto platform.

- Supported end-users and resolved technical issues efficiently.

Education

Centro Universitário Senac *Feb 2018 – Jun 2020*

- **AAS in Digital Games**

Languages

- **Portuguese:** Native

- **English:** B2-C1 proficiency

Notable Projects

Camunda BPM Workflow Implementation (Visto Tecnologia)

- Designed and implemented a BPMN workflow for a financial client using Camunda BPM, enabling dynamic task routing based on user input validation.

- Configured the workflow to return to specific stages or skip steps based on conditional field changes, ensuring precise execution of activities.

- Integrated PDF generation and attachment upload within the workflow using Java and Groovy, while utilizing Python for transforming React-generated HTML into PDF files.

- Developed intuitive user interfaces for reports and forms using TypeScript and React.

File Storage System Improvement (Agibank)

- Enhanced Agibank's file storage system with a YYYY/MM/DD folder structure based on filenames, improving file retrieval.

- Applied the solution retroactively, organizing over 25,000 existing files to ensure accessibility.

- Developed a scheduler to monitor and process files, upload copies to AWS S3 and create metadata records in MongoDB.

- Implemented resilience strategies to handle errors during file processing, ensuring consistency and reliability.

- Utilized Java, Spring Boot, SMB, AWS S3, and MongoDB to deliver a robust and scalable solution.