Vinicius Eduardo da Silva

Senior Software Engineer · Backend & Full Stack · Java / Spring Boot · React

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SUMMARY

Senior software engineer with 5+ years building production enterprise applications. Backend-focused: Java / Spring Boot microservices, REST APIs, event-driven integrations with RabbitMQ, PostgreSQL, and AWS. Full stack delivery with React, Angular, and TypeScript. Hands-on AI-assisted development with Claude Code, Codex, and AI agents, from design through automated testing. Owns features end to end — scoping, estimating, and delivering with minimal supervision — in Agile, distributed teams alongside Product Managers, QA, and architects, including a period as Squad Leader. Fluent in English (C1), including an international project for Bosch run entirely in English.

SKILLS

Core: Java, Spring Boot, REST APIs, Microservices, RabbitMQ, PostgreSQL / SQL, React, Angular, TypeScript, AWS (S3, Lambda), Docker, CI/CD, Git, JUnit / Mockito, Claude Code / Codex / AI agents

Also used professionally: Node.js, Quarkus, Next.js, Vue.js, React Native / Expo, RxJS, Spring Data JPA / Hibernate, Flyway, MongoDB, SQLite, SOAP / WSDL, Modbus-TCP / IoT, Jenkins, GitLab, Azure DevOps, Red Hat OpenShift, Kibana / Logstash, Jira

EXPERIENCE

Independent Software Engineer (Contractor) — Self-employed

Mar 2026 – Present

Modular on-premise MES/WMS platform for a plastic-injection manufacturer with ~300 employees

- **End-to-end ownership:** designing and building a modular manufacturing platform with Java / Spring Boot, PostgreSQL, React Native / Expo (web + mobile) and Docker, running fully on-premise on the factory network.
- **Warehouse management (delivered):** material locations, 2D/3D warehouse views, drag-and-drop operations, audit history, role-based access, and PDF reporting.
- **Real-time machine monitoring (pilot in validation):** Node.js edge application reading machine digital inputs/outputs every 300 ms (HTTP and Modbus-TCP), cycle detection with delay alerts at +10% / +15%, SQLite offline buffer with automatic resend, and idempotent, sequence-validated event ingestion on the backend.
- **Production planning (PCP):** work-order lifecycle, per-machine drag-and-drop queue, PDF work-order import from the ERP, downtime and scrap tracking, live progress vs. target cycle time, and completion estimates.
- **Client & delivery:** requirements, scoping, estimates and versioned proposals with acceptance criteria and change control; IP retained under a perpetual, non-exclusive license model.
- **AI-assisted engineering:** built with an AI-assisted workflow (Claude Code and Codex), with 2,400+ automated tests across the edge app (80+), backend (490+, JUnit 5 / Mockito), and UI (1,900+, Jest).
- **Roadmap (planned):** scaling from one pilot machine to the full fleet (38 machines registered), moving machine communication from HTTP to MQTT, and adding multi-machine production planning and OEE / MTBF / MTTR indicators.

Software Developer IV — Senior Sistemas

Sep 2025 – Jul 2026

Document management (GED/ECM) & digital signature products at one of Brazil's largest ERP vendors

- **Platform scope:** the GED/ECM and digital-signature suite runs on dozens of interdependent microservices; worked across 12 of its components (5 Angular frontends and 7 Spring Boot services) covering contacts, document vault, signature workflows, PDF processing, and ratings, in products used by thousands of corporate accounts.
- **Document & signature workflows:** corporate customers needed to store, process, and sign documents inside the ERP ecosystem; delivered backend REST APIs (PostgreSQL) with document storage on AWS S3, plus the Angular screens for the document vault and signing portal, shipping each feature end to end.
- **PDF processing:** signed documents required stamps and audit-trail reports; implemented PDF generation, stamp placement, and audit summaries with PDFBox, iText, and JasperReports.

- **Bulk operations:** customers managed contacts and documents one record at a time; implemented contact-management, bulk-import, and batch-operation features, letting large data sets be processed in a single operation.
- **Distributed systems:** services had to evolve independently without breaking each other; designed asynchronous, event-driven integrations on RabbitMQ and managed cross-service version compatibility, keeping releases free of breaking changes.
- **Reliability & quality:** cross-service incidents were slow to trace and the shared codebase carried regression risk; drove log traceability with Kibana / Logstash, led staging and production troubleshooting, and enforced code reviews and JUnit / Mockito tests in CI/CD, shortening time-to-diagnosis.
- **Leadership:** as Squad Leader, ran release planning, scope, and estimations across backend and frontend services, partnering with product stakeholders to keep delivery on track.

Full-Stack Engineer — Cast Group Aug 2021 – Sep 2025

IT consultancy — full-stack delivery for Bosch, TJMG (Minas Gerais Court of Justice), Usiminas, Prodemge, and Studio Z

Senior Development Analyst Apr 2025 – Sep 2025

- **TJMG — procurement automation:** drafting government procurement notices took days of manual work; joined the founding team of a browser extension that automates them, building the React front end and Spring Boot APIs over complex data queries, cutting drafting from days to minutes.
- **CI/CD:** releases had to move consistently through development, staging, and production; managed the CI/CD lifecycle with Jenkins and Red Hat OpenShift, automating builds, tests, and containerized deployments across all three environments.

Mid Software Development Analyst Feb 2024 – Apr 2025

- **Usiminas — logistics modernization (2024–25):** legacy JSF logistics systems needed modernization; migrated them to Java / Quarkus services with Angular frontends and CI/CD on Jenkins and GitLab, moving the flows onto a maintainable, service-based stack.
- **Responsive UI:** users accessed the systems on mobile, tablet, and desktop; implemented responsive layouts so interfaces adapt to every screen size.

Junior Software Development Analyst Jul 2022 – Feb 2024

- **Studio Z — e-commerce restocking:** slow data retrieval limited the restocking platform; engineered and optimized complex SQL queries, increasing query speed by 40% and reducing database response time.
- **Enhancement packages:** client needs had to become deliverable scope; defined and led development of enhancement packages, translating requirements into technical solutions for user and product management.
- **Bosch — international project (2022):** the project ran entirely in English with an international team; took part in requirements, refinements, estimations, and sprint reviews, delivering with TypeScript, Node.js, Next.js, and MongoDB.
- **Prodemge — public sector (2023):** the state needed school asset-tracking and hospital scheduling systems; built both as statewide web applications with Java and Vue.js.

Trainee Aug 2021 – Jun 2022

- **Studio Z — microservices & integrations:** the e-commerce platform depended on external systems; in a Scrum team, built Java / Spring Boot microservices with SAP and SOAP / WSDL integrations, SQL queries, and Red Hat OpenShift deployments.
- **Training program:** implemented Java REST APIs and React / Angular components in JavaScript and TypeScript.

EDUCATION

Postgraduate Degree, Software Engineering — Estácio Oct 2024 – Oct 2025

Associate Degree (Technologist), Systems Analysis and Development — Estácio Feb 2020 – Jul 2022

LANGUAGES

English — Advanced (C1) · Portuguese — Native