

Fabiano Bondia

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Senior Software Engineer | Software Architecture | Agent-Native Systems

About

Senior Software Engineer with more than 20 years of experience building and evolving business-critical systems across telecommunications, payments, insurance, retail, energy, and application security.

I work across the full software delivery lifecycle — from solution architecture and backend services to mobile and web applications, automated testing, CI/CD, observability, and production support.

At Bosonit, working on a long-term project for TIM Brasil, I designed and continue to evolve an end-to-end preventive-maintenance platform. My responsibilities include the React Native application, Java backend, solution architecture, Jenkins pipelines, and ongoing product evolution.

Previously, at BugScout, I worked on static code analysis and application security, integrating Jenkins, Maven, SonarQube, SAP, and Docker. I developed Java and Spring Boot components, bytecode instrumentation, Java agents, and .NET test adapters, while also contributing to documentation, packaging, and front-end modernization.

My core expertise includes Java, Spring Boot, React Native, React, Node.js, Docker, and CI/CD. More recently, I have been expanding my work in applied AI, including RAG, AI agents, LangChain, LangGraph, OpenAI APIs, Google Cloud, and agent-native systems.

I am at my best when turning complex operational problems into reliable, maintainable products and owning the solution from architecture through production.

Highlights

- End-to-end ownership, from architecture to production
- Java, Spring Boot, React Native, React, Node.js, Docker, and CI/CD
- Business-critical systems and complex corporate integrations
- Application security and low-level code analysis
- Applied AI, AI agents, RAG, and agent-native systems

Languages

- Portuguese (Native)
- English (Professional)
- Spanish (Professional)

Education

Bachelor in Information Systems
Universidade Bandeirantes
2002 - 2006

MBA in Software Engineering with AI
FCTech - Full Cycle College
2025 - Present

Skills & Competencies

Applied AI & Agent-Native Systems

- AI agents and human-agent workflows
- Retrieval-Augmented Generation (RAG)
- LangChain / LangGraph
- OpenAI APIs and agent clients
- Model Context Protocol (MCP)

Backend Languages & Frameworks

- Java
- Python
- Node.js
- .NET / C#
- Spring / Spring Boot / Spring Data
- Hibernate
- Quartz
- Kafka
- ActiveMQ
- Advanced Maven configuration

Mobile Development

- React Native
- Android (Java)
- Ionic
- Cordova

DevOps & Infrastructure

- Jenkins & Groovy
- Docker
- Tomcat
- JBoss
- WebLogic
- Apache
- Nginx
- Bash scripting
- Linux (Debian, CentOS)
- SonarQube
- Google Cloud
- Firebase
- Nexus

Methodologies & Processes

- Scrum / Kanban
- Gitflow
- Code Review & Pull Requests
- Requirements analysis

Architecture & Development Practices

- End-to-end software development lifecycle
- REST APIs (development, consumption, Swagger documentation)
- SOAP Web Services
- Secure development patterns
- Event-driven architecture
- Containerized environments (Docker, Docker Compose, Kubernetes)
- Microservices
- Low-level code analysis (bytecode)
- SonarQube plugin development
- Jenkins plugin development
- JVM agent development
- .NET Test Adapter development

Testing & Quality Assurance

- JUnit
- Mockito
- TestContainers
- JMeter
- Postman

Frontend Development

- React.js
- Angular
- AngularJS
- HTML5 & CSS
- Bootstrap
- jQuery
- JSF / PrimeFaces

Data Management

- SQL Server
- Oracle
- MySQL
- Elasticsearch
- MongoDB
- Firestore
- Neo4J

Selected Projects



Manura — Creator & Software Architect

Modular platform for asset management, maintenance, and field operations. It supports asset lifecycle management, preventive, corrective and predictive activities, dynamic forms, configurable workflows, geographic planning, offline mobile execution, inventory, operational resources, audit trails, and AI-assisted configuration.

Responsible for product architecture across web, mobile, backend, shared domain components, automated testing, CI/CD, observability, and operational tooling.

Stack: Software Architecture, React Native, React, Node.js, Firebase, MongoDB, Playwright

Product website (<https://app.manura.co/>)



Bondia Workspaces (BIAWS) — Creator & Lead Developer

Open-source, agent-native operational workspace for hybrid human and AI software teams. It brings together issues, improvements, operational procedures, application topology, runtime health signals, and versioned agent skills in a single platform.

Designed domain-scoped MCP tools and a CLI workflow for publishing and installing agent capabilities without unrestricted database access. The platform includes workspace-level authorization, audit trails, reproducible Docker installation, multi-instance support, and integrations with agent clients such as Codex and Claude.

Stack: Artificial Intelligence, Software Architecture, Node.js, React, MongoDB, Docker, MCP

GitHub repository (<https://github.com/fbondia/biaws>)



Quero QR — Creator & Full-Stack/Mobile Engineer

End-to-end platform that connects physical objects to persistent digital identities through stable QR Codes. Each item can have a structured digital profile with public or private information, photos, files, notes, checklists, history, collections, analytics, and visitor interactions.

Responsible for product design, software architecture, web and mobile development, backend services, billing, automated testing, deployment, and the complete physical-to-digital user experience.

Stack: React Native, React, Firebase, Google Cloud, Software Architecture, Playwright

Google Play (<https://play.google.com/store/apps/details?id=br.com.bondia.queroqr>)



I-Ching Mobile — Creator & Mobile Engineer

Independently designed and developed an Android application for I Ching consultations, with structured exploration of trigrams, hexagrams, changing lines, related hexagrams, and consultation history.

More recently, I added AI-assisted interpretation to help users explore consultation results from new perspectives while preserving the reflective, non-deterministic nature of the experience.

Stack: React Native, Firebase, Android, Mobile Architecture, Applied AI

Google Play (<https://play.google.com/store/apps/details?id=br.com.bondia.iching>)

Professional Experience



Senior Software Engineer / Solution Architect

TIM Brasil - 01/2014 - present

Designed and continue to evolve an end-to-end preventive-maintenance platform for TIM Brasil through Nalbatech/Bosonit.

Responsible for the React Native application, Java backend, solution architecture, corporate integrations, Jenkins pipelines, automated testing, production support, and continuous product evolution.

Technologies

- React.js, React Native
- Java, Spring MVC, Hibernate
- Ionic, Cordova
- AngularJS, Bootstrap
- Oracle
- Linux Redhat and CentOS
- Jenkins
- JMeter



Senior Software Engineer

Bugscout Inc. - 08/2018 - 09/2024

Worked as a senior developer on a static code analysis system focused on information security (OWASP, CWE, PCI), integrating tools such as Jenkins, Maven, SonarQube, SAP, and Docker. Developed components in Java and Spring Boot, and worked with bytecode instrumentation, JavaAgents, and .NET TestAdapters. Also responsible for documentation, packaging, and redesigning the product's front end.

Technologies

- Java, Springboot, SpringData, SpringShell
- ActiveMQ, Kafka, Elasticsearch, Neo4J
- Swagger, REST API, GraphQL API, JWT
- React, Material UI
- Jenkins, Maven, Javac and Sonarqube plugins development
- Java and .NET low-level structures
- Java and .NET code instrumentation
- AST handling
- Bytecode/IL handling
- Development of TestAdapters (.NET)
- Development of JavaAgents (JVM)
- Development of Java x SAP integrations
- Kubernetes, Docker, Docker-Compose, TestContainers
- GCloud, AWS
- JUnit, Mockito
- Ansible, Packer
- Linux Debian, Bash scripting



Senior Developer

BNP Paribas Cardif - 02/2016 - 07/2018

Participated in the development of new features and maintenance of the company's core systems, such as those responsible for claims management automation and insurer-partner integrations.

Technologies

- Java
- Hibernate
- JBoss
- Quartz
- JPA
- Spring-Batch
- Sql Server
- Angular 4
- JSF Primefaces

Earlier experience

Senior Software Developer · Schneider Electric — 01/2014 - 02/2016

Systems Specialist · Cielo — 06/2013 - 01/2014

Technical leader · Cielo — 01/2013 - 06/2013

Consultant · Consultoria H2M — 08/2006 - 05/2013

Systems Analyst · Fundação Ezute — 10/2012 - 01/2013

Technical Lead · Cielo — 11/2009 - 09/2012

Software Developer Analyst · Merrill Lynch — 11/2007 - 11/2009

Team Coordinator · C&A — 11/2008 - 01/2009

Software Developer Analyst · Banco Espírito Santo — 10/2008 - 11/2008

Systems Analyst · Editora SBS — 09/2007 - 11/2007

Software Developer Analyst · Drogacenter — 08/2006 - 11/2007

Software Developer Analyst · NationSoft — 07/2006 - 10/2007

Developer · Hewlett-Packard — 02/2002 - 07/2006

Administrative Assistant · Hewlett-Packard — 10/1996 - 02/2002