

RAFAEL ANDRADE DE OLIVEIRA

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SUMMARY

Throughout my career, I've been trusted to solve the hardest engineering problems: modernizing legacy platforms, designing scalable architectures, improving reliability, and enabling teams to deliver faster. Over 20+ years, I've led the design of distributed cloud-native systems using Java, AWS, serverless technologies, and event-driven architecture across financial and gaming industries. I enjoy combining deep software engineering expertise with pragmatic architecture, cloud infrastructure, DevOps, and AI-assisted development to build systems that remain reliable, maintainable, and ready to grow.

CORE SKILLS

Languages

Java, Scala, Python, Node.js, TypeScript, JavaScript, Kotlin, Groovy

Software Architecture

Distributed Systems, Event-Driven Architecture, Microservices, Serverless, DDD, REST APIs, SOA, ETL, IaC, Functional Programming (FP), Reactive Programming (RP), Object-oriented programming (OOP)

AWS

IAM, VPC, EC2, ECS, API Gateway, Lambda, SNS, SQS, S3, CloudFront, Route53, Batch, Glue, Firehose, RDS, DynamoDB, DocumentDB, SageMaker, Step Functions, Athena, CloudWatch, EventBridge

Data

PostgreSQL, MySQL, Oracle, DynamoDB, MongoDB, InfluxDB, CouchDB, Elasticsearch, Redis, Parquet

Observability

Datadog, Dynatrace, Grafana, Prometheus, Sentry, New Relic

Tools & Frameworks

Kafka, RabbitMQ, Apache Flink, Spring Boot, Spring Cloud, WebFlux, Terraform, Kubernetes, Docker, Harness, Jenkins, Github Actions, Vault, Consul

AI-Assisted Engineering

Claude, Cursor, GitHub Copilot, LLMs

WORK EXPERIENCE

Senior Software Engineer — Ambush/PayPal (Remote)

Jul/2024 - Present

- Maintain and enhance a Spring-based backend ecosystem powering payment flows (checkout planning/execution stability), applying scalable service design and reliability practices.
- Manage observability infrastructure and monitoring with Terraform (Datadog provider), creating dashboards, monitors, and alerts to improve the detection of issues in production and fix faster.
- Operate and optimize CI/CD pipelines using Harness, including legacy migrations from Jenkins, enabling smoother releases and safer deployments.
- Centralize error handling and improve traceability using AOP (AspectJ), removing duplicated logic and strengthening maintainability.
- Implement comprehensive functional tests for critical downstream integrations to prevent production issues and reduce need for rollbacks/hot fixes.
- Orchestrate biweekly production releases, performing risk assessment including signoff, tag-cut and regression test execution, to ensure successful releases.
- Improve engineering throughput using AI-assisted development tools (Claude/Cursor/Copilot) to accelerate refactoring and test generation while maintaining code quality.

Partner/Technical Consultant (Part-time) — Declare Cripto (Remote)**Feb/2022 - Oct/2025**

- Lead the architecture and infrastructure of a secure platform used to calculate and manage cryptocurrencies, generating fiscal documents to be compliant to Receita Federal (Brazil).
- Managing AWS account, IAM user, roles, and policies, following the Principle of Least Privilege (PoLP)
- Responsible for security, event-driven architecture, serverless APIs, databases and more.
- Implemented API integrations to exchanges such as Binance, Bitso, Mercado Bitcoin, Novadax, etc.
- Implemented integrations with Asaas payment gateway and Sendgrid, Beeviral, Zoho, CRM tools using REST API and webhooks.
- Implemented IAC with Terraform, monitoring with Sentry, CI/CD with Jenkins pipelines.

Lead Software Architect — ADP Brazil Labs (Hybrid)**Jan/2022 - Jul/2024**

- Designed a scalable and extensible architecture for a career planner application based on the match of multiple data sources and AI and pluggable to any company and their organizational structures.
- Responsible for the event-driven architecture, serverless and microservices using Node and Python.
- Responsible for all the cloud infrastructure (AWS), DevOps processes and CI/CD.
- Implemented IAC using Terraform to provide all the AWS resources ready for disaster recovery.
- Implemented integration with Dynatrace, Splunk, Kubernetes, Terraform, Vault, Sonar, Artifactory.
- Adopted NoSQL databases such as DynamoDB, DocumentDB and Opensearch.
- Adopted API Gateway, BFF and feature flags (Growthbook) in the ecosystem.
- Mentoring the team on scalable architecture, clean code, Typescript and Python languages.

Backend Software Engineer Specialist — Agibank (Remote)**Jun/2021 - Nov/2021**

- Responsible for the technical definitions for both squads Client Platform and Payment Gateway.
- Architecture evolution in scalability, idempotence, resilience and performance.
- Event-driven architecture using Kafka, RabbitMQ and Spring Cloud.
- Adopted microservices architecture using Java, Spring Boot and Spring WebFlux.
- Implemented batch payment processing using Spring Batch, Spring Data and Camunda.
- Implemented integrations with third-party payments gateway like Matera and Dock.
- Monitoring and troubleshooting improvements with ELK and Grafana.
- Prioritized technical debts, refactorings and legacy support.

Software Architect — SoftDesign/Sicredi (Remote)**Feb/2020 - Jun/2021**

- Responsible for a powerful and scalable streaming hub used to process all the Sicredi's accounting.
- Improved event-driven architecture built with Scala using Kafka and Apache Flink.
- Helped to migrate several legacy data to the digital platform creating ETL processors.
- Microservices architecture with APIs built with Java, Spring WebFlux, Consul, Vault, InfluxDB and MongoDB. Integration tests with Groovy and Spock.
- Integrations with Datalake, Athena and Kafka Connect.
- Mentoring the team on event-driven architecture, functional and reactive programming.

EDUCATION**Technologies applied to Information Systems with Agile Methodology****2013/2014**

Postgraduate Degree in UniRitter

Information Systems**2004/2009**

Bachelor's Degree in UniRitter