

# RAFAEL ANDRADE DE OLIVEIRA

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IT specialist with 20+ years of work experience contributing with innovative solutions for large companies.


## EDUCATION

-  **UniRitter: Postgraduate Degree in Technologies applied to Information Systems with Agile Methodology** 2013/2014
-  **UniRitter: Bachelor's Degree in Information Systems** 2004/2009


## EXPERIENCES

 **ADP Brazil Labs, Lead software architect** | Hybrid (Porto Alegre/RS - Brazil) Jan/2022 - Present

- Designed a scalable and extensible architecture for a career planner application based on the match of multiple data sources and IA pluggable to any client and their organograms.
- Responsible for the event-driven architecture, microservices architecture and serverless architecture.
- Adopted a microservices layer based on DDD and a micro-frontends breaking legacy and monolithic applications.
- Implemented integrations for data ingestion and data processing using AWS resources like SNS, SQS, Lambda, Batch, EventBridge, Sagemaker endpoints and Step functions, Node.JS and Python languages.
- Responsible for the DevOps processes and the management of multiple AWS accounts including 4 environments.
- Implemented IAC using Terraform to provide all the AWS resources.
- Implemented CI/CD integration for deployment in AWS ECS, lambda functions and Kubernetes clusters.
- Enabled integration with Dynatrace, Splunk, Kubernetes, Terraform, Vault, Sonar, Artifactory.
- Adopted API Gateway, BFF and feature flags (Growthbook) in the ecosystem.
- Implemented integration with Webex BOTs and Adaptive cards.
- Integration with NoSQL databases such as DynamoDB, DocumentDB and Opensearch.
- Helped with the backlog including feature specifications, priorities definition, tasks and technical debts.
- Mentoring the team about scalable architecture, clean code and solid principles and Typescript language.

 **Declare Cripto, Partner, Architect and Infrastructure Manager** | Remote (Brazil) Feb/2022 - Present

- Lead the architecture and infrastructure of a secure platform used to calculate and manage Crypto currencies generating fiscal documents to be compliant to Receita Federal.
- Connected to several wallets and exchanges from all the world.
- Setup all the AWS infrastructure migrated from Lightsail.
- Responsible for the management of all AWS accesses based on IAM users, roles and policies.
- Implemented external access using Bastion host (SSH tunneling)
- Implemented integration with third-party APIs like Blockchair.
- Implemented IAC using multiple Terraform states to provide all the AWS resources.
- Implemented CI/CD with CodeBuild and CodePipeline integrated with GitHub and provided by Terraform.
- Implemented batch file processes and its workflow using AWS Batch jobs migrated from Airflow.
- Implemented serverless API using lambda functions and AWS API gateway with custom domain.

 **Agibank, Backend software engineer specialist** | Remote (Brazil) Jun/2021 - Nov/2021

- Responsible for the technical definitions for both squads Client Platform and Payment Gateway.
- Implemented integrations with third-party payments gateway like Madera and Dock.
- Event-driven architecture using Kafka and RabbitMQ and Spring Cloud.
- Adopted microservices architecture using Java, Spring Boot and Spring WebFlux.
- Implemented batch payment's processing using Spring Batch and Spring Data.
- Architecture evolution in scalability, idempotence, resilience and performance.
- Implemented CI/CD improvements using Jenkins pipelines.
- Responsible for the migration from WSO2 to AWS API Gateway.
- Implemented integration with Camunda's BPM processes.
- Monitoring and troubleshooting improvements with ELK and Grafana.
- Helped to organize legacy support and technical debts prioritizing urgent refactorings and mapping improvements.

 **SoftDesign, Software architect** | Porto Alegre/RS - Brazil 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.
- Integrations with Datalake, Athena and Kafka Connect.
- Integration tests with Groovy and Spock.
- Mentoring the team about event-driven architecture, functional programming and reactive programming.