# Filipe Bojikian Rissi

**Senior Software Engineer | Distributed Systems | Cloud Architecture | AWS | Kubernetes | Microservices**

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Bauru — SP, Brazil

## SUMMARY

Staff Software Engineer with 15+ years of experience designing scalable platforms, distributed systems, and cloud-native applications across web, mobile, and backend environments. Strong expertise in microservices, cloud architecture, DevOps, and high-performance systems, with hands-on experience in AWS, Kubernetes, Open Finance, authentication platforms, and large-scale integrations.

## TECHNICAL SKILLS

### Languages & Frameworks:

Java, Kotlin, PHP, Python, JavaScript, Go, Dart, Laravel, Symfony, Spring Boot, Jakarta EE, Quarkus, Vue.js, React.js, Node.js

### Cloud & DevOps:

AWS, DigitalOcean, Docker, Kubernetes (EKS/ECS), Terraform, Cloudflare, CI/CD, Jenkins, GitHub Actions, GitLab CI/CD

### Architecture & Distributed Systems:

Microservices, Distributed Systems, Event-Driven Architecture, TDD, DDD, REST APIs

### Messaging & Async Processing:

Kafka, RabbitMQ, Amazon SNS/SQS, Redis, Laravel Queues, Horizon

### Databases & Storage:

MySQL, PostgreSQL, Oracle Database, DynamoDB, Redis, MongoDB

### Mobile:

React Native, Flutter, Kotlin, Swift

## PROFESSIONAL EXPERIENCE

**October 2024 - May 2026 | Remote**

### Exlink
### Full-Stack Developer

- Contributed to the development and maintenance of a multi-tenant platform for international exchange programs using Laravel, Vue.js, Filament, Livewire, and Alpine.js.
- Developed and customized low-level server-driven UI components within the Filament ecosystem, improving platform flexibility and maintainability.
- Designed and optimized a Twig-based document template rendering engine, resolving critical performance bottlenecks through caching strategies and placeholder optimization.
- Investigated and fixed timeout and infinite-loop issues caused by cyclical object references during recursive placeholder mapping, improving reliability and template generation stability.
- Designed and implemented a remote multi-user document signing workflow integrated with external signature APIs, including document lifecycle management, audit logs, notifications, and signature tracking.
- Developed an internal omnichannel messaging system supporting bidirectional communication via email (AWS SNS) and SMS (Vonage API).
- Implemented asynchronous and queue-based workflows using Laravel Queues and Horizon to improve scalability and background job processing reliability.
- Built AI-powered conversation analysis features capable of generating sentiment metrics and automated insights from user communications.
- Worked with AWS services and event-driven integrations to support scalable communication and document-processing workflows.

- Created and maintained custom forks of open-source packages to unblock critical deliveries, contribute upstream improvements, and support advanced platform customizations under tight deadlines.
- Collaborated on architecture, debugging, performance optimization, and integration of distributed platform services.

**Technologies & Skills:** Laravel, PHP, Vue.js, Filament, Livewire, Alpine.js, Twig, Laravel Horizon, Queues, Asynchronous Processing, AWS SNS, Vonage API, REST APIs, Multi-Tenant Architecture, AI Agents, Open Source Contributions, Performance Optimization, Recursive Algorithm Debugging, Caching Strategies, Event-Driven Architecture, Background Jobs, Remote Document Signing, Audit Logs, Docker, MySQL, Kubernetes, Redis.

**August 2021 - September 2024 | Remote**

### PagBank
### Senior Back-end Developer

- Contributed to the development and maintenance of a Brazilian Open Finance platform integrated with APIs regulated by the Central Bank of Brazil.
- Worked on authentication and authorization services using Keycloak, implementing custom features and adaptations to comply with Open Finance regulatory requirements.
- Redesigned the local development environment using multi-stage Docker builds, automating server customization and significantly improving onboarding, environment consistency, and developer productivity.
- Contributed to the migration from JBoss/WildFly to Quarkus, helping troubleshoot classloader and module-loading differences while modernizing the authentication infrastructure.
- Identified and fixed an issue related to Infinispan cache behavior with Oracle databases, contributing improvements to the platform ecosystem.
- Customized Keycloak UI and authentication flows to support business and regulatory requirements.
- Implemented FIDO authentication flows using FIDO Alliance-certified open-source solutions under tight delivery deadlines.
- Maintained and evolved a distributed payment ecosystem composed of microservices and cloud-native infrastructure.
- Managed infrastructure and deployment workflows using Terraform, Atlantis, Jenkins, AWS ECS, Lambda, API Gateway, Route 53, DynamoDB, IAM, VPC, Secrets Manager, S3, ECR, and CloudWatch.
- Improved a shared Jenkins deployment pipeline used by more than 20 engineering teams, introducing custom ECS and Splunk logging integrations while maintaining backward compatibility.
- Optimized token introspection Lambda performance by introducing parallel processing for independent validation steps, reducing request latency and improving authorization response times.
- Worked with MTLS communication services, cloud infrastructure reliability, deployment automation, observability, and production troubleshooting.

**Technologies & Skills:** Java, Kotlin, Quarkus, Keycloak, Open Finance, OAuth2, OpenID Connect, FIDO, AWS, ECS, Lambda, API Gateway, DynamoDB, Terraform, Atlantis, Jenkins, Docker, Kubernetes, MTLS, Infinispan, Oracle Database, Microservices, Distributed Systems, CI/CD, Splunk, Cloud Infrastructure, Performance Optimization, Authentication & Authorization, DevOps, Troubleshooting, Python, Node.js, Nginx, Lua, OpenResty, Audit Logs.

**December 2019 - July 2021 | Remote**

### Firework Web and Mobile
### Senior Full-Stack Developer and Tech Lead

- Worked across multiple customer projects in roles involving software architecture, technical leadership, backend development, DevOps, cloud infrastructure, and consulting.
- Led initiatives to improve automated test coverage after production issues caused by insufficient validation, expanding coverage across unit tests, integration tests, and end-to-end tests using Selenium.
- Designed and implemented a document import engine capable of processing PDF, CSV, and XLS files using contracts and the Chain of Responsibility pattern, improving extensibility and maintainability.
- Developed asynchronous workflows and real-time notification systems within the Laravel ecosystem.
- Supported a Symfony-based development team in resolving architectural and performance issues caused by incorrect ORM usage, including problems related to Dirty Checking, Entity Manager lifecycle, and microservice synchronization.
- Acted as a technical mentor, helping teams improve framework understanding, reduce technical debt, and adopt better development practices.
- Guided the adoption of Laravel in projects where a simpler and more maintainable architecture was more appropriate for the customer's technical maturity.
- Contributed to DevOps and cloud infrastructure modernization initiatives on AWS, improving security, governance, and operational efficiency.
- Designed and implemented Kubernetes-based infrastructure on AWS, introducing IAM policies and governance improvements while reducing cloud operational costs by approximately 80%.
- Worked in a consulting role supporting a Java team in troubleshooting critical production memory leaks.

- Guided developers in generating and analyzing JVM memory dumps, troubleshooting classloader behavior, and identifying memory leak sources in production environments.
- Helped identify and resolve a memory leak caused by an external dependency, stabilizing the application and eliminating recurring production crashes.

**Technologies & Skills:** Laravel, PHP, Symfony, Java, Selenium, Docker, Kubernetes, AWS, IAM, DevOps, Microservices, Distributed Systems, ORM, Doctrine ORM, MySQL, PostgreSQL, JVM Troubleshooting, Memory Dump Analysis, Performance Optimization, Chain of Responsibility Pattern, Asynchronous Processing, Real-Time Notifications, Cloud Infrastructure, CI/CD, Technical Leadership, Mentoring, Software Architecture, Troubleshooting, Unit Testing, Integration Testing, End-to-End Testing.

**August 2017 - December 2019 | Bauru - SP**

### Finch Brasil Soluções Integradas de Tecnologia
### Java Tech Lead

- Started as a Back-End Developer supporting AI and Data Science projects, providing backend services and technical support for data processing and machine learning workflows.
- Took ownership of a critical Python-based AI project one day before customer delivery after the original developer unexpectedly left the project.
- Quickly learned and troubleshot Python and Pandas-based data processing pipelines despite having a background primarily focused on Java.
- Stabilized the application, fixed critical issues, executed data processing workflows, and successfully prepared the project delivery under a tight deadline.
- Expanded technical expertise into multi-language development and cross-disciplinary engineering environments.
- Worked as a Tech Lead supporting development teams through technical mentoring, code reviews, troubleshooting, and architectural guidance.
- Developed and maintained Java-based microservices responsible for processing millions of messages related to legal automation workflows.
- Worked with RabbitMQ for asynchronous communication and distributed message processing.
- Supported systems responsible for consuming and processing large-scale data collected from automated website scraping and integration workflows.
- Contributed to scalability and reliability improvements, helping design services capable of autoscaling based on queue demand and processing workload.
- Helped ensure platform stability and high throughput during peak processing periods.

**Technologies & Skills:** Java, Python, Pandas, RabbitMQ, Microservices, Distributed Systems, Asynchronous Processing, Web Scraping, Machine Learning Support, Data Processing, Tech Leadership, Code Review, Troubleshooting, Scalability, Autoscaling, Backend Development.

## FREELANCE

**August 2019 - Present**

### Mega Bilheteria
### Staff Software Engineering

- Modernized a legacy system built with outdated technologies and without an architecture designed for scalability or cloud-native operations.
- Designed and implemented modern infrastructure using Kubernetes and AWS services such as S3, managed databases, Secrets Manager, and Redis.
- Enabled a gradual and safe migration strategy while keeping the legacy platform fully operational during the modernization process.
- Improved system scalability, reliability, deployment processes, and infrastructure maintainability.
- Developed scalable Go-based microservices with 100% automated test coverage for document synchronization and processing workflows integrated with AWS S3.
- Worked on mobile application integrations with payment SDKs and supported distribution processes for Google Play Store and Apple App Store.
- Contributed to cloud architecture, DevOps practices, distributed systems, and modernization initiatives for legacy environments.

**Technologies & Skills:** Go, Golang, Kubernetes, AWS, AWS S3, Redis, Docker, Microservices, Distributed Systems, DevOps, Cloud Infrastructure, Legacy System Modernization, Automated Testing, Mobile Integration, Payment SDKs, Google Play Store, Apple App Store.

## OPEN SOURCE CONTRIBUTIONS

- Apache (https://fbrissi.dev/open-source/apache-commons-net)
- Laravel (https://fbrissi.dev/open-source/laravel)
- Kool Dev (https://fbrissi.dev/open-source/kool-dev)
- JGroups AWS (https://fbrissi.dev/open-source/jgroups-aws)
- Infinispan (https://fbrissi.dev/open-source/infinispan)
- Keycloak (https://fbrissi.dev/open-source/keycloak)
- Pentaho Data Integration (PDI) (https://fbrissi.dev/open-source/pentaho-data-integration)
- PrimeFaces Core (https://fbrissi.dev/open-source/primefaces)
- WireChat (https://fbrissi.dev/open-source/wirechat)

## EDUCATION

- MBA in Software Engineering (Agile Methods) - IGTI (2018)
- Bachelor's Degree in Computer Science - Anhanguera (2013)