

Bruno Tatsuya

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Summary

Backend engineer with 7+ years of experience designing and scaling cloud-native systems across fintech and platform products. I focus on building systems that improve user and organizational capabilities through strong reliability foundations, clear domain boundaries, and measurable business impact.

Experience

Software Engineer, Qonto – France, Remote 2025 – present

- **Owned and delivered flagship features** across Ruby and Go services supporting international expansion, driving **~60% YoY conversion growth** in emerging markets through improved customer onboarding
- **Led adoption of an SLO framework** across backend services, defining standards for SLIs/SLOs and alerting policies backed by Prometheus rules, reducing alert noise and improving **incident detection lead time from hours to <1 min**
- **Designed and led** implementation of a **GraphQL aggregation layer** to safely extract domain context from a monolith into microservices, enabling decomposition **without introducing breaking changes** for user-facing clients
- **Drove migration of Kafka producers to the Outbox pattern**, eliminating data inconsistency caused by failed publishes and reducing message-related production incidents and bugs by **~70%** across critical services

Senior Software Engineer, Imaginary Cloud – Portugal, Remote 2024 – 2025

- **Architected and led development of a cloud-native backend** platform using Python (FastAPI), Kubernetes, Terraform, and GCP, designed to support **~20k concurrent users** and **~1k requests/sec** with **p95 latency <250 ms**
- **Designed and shipped multi-tenant architecture** with strict tenant isolation and country-specific data residency enabling **regulatory compliance**
- **Led a team of 4 cross-functional engineers**, defining technical strategy and delivery standards that improved code review efficiency, QA throughput, and overall release velocity
- **Conducted 15+ technical interviews** across Junior to Lead levels, contributing to hiring **4 high-performing engineers** and strengthening the company's delivery capabilities

Senior Software Engineer, AppTweak (via Imaginary Cloud) – Belgium, Remote 2024 – 2024

- **Designed and owned AI-powered backend services** integrating Ruby async processing with LLM providers, deployed on AWS EKS using Terraform for scalable production workloads, achieving sustained throughput of **~30–100 messages/sec**
- **Re-architected request processing** by offloading side effects to Sidekiq, improving Rails endpoint throughput, reducing user-facing timeouts and throttling from **~3% of requests** to **<0.5%**
- **Optimized data-intensive ETL pipelines** by redesigning batch processing and tuning SQL queries, reducing AWS RDS burst balance consumption by **80%** and improving long-term cost efficiency

Software Engineer, AppTweak (via Imaginary Cloud) – Belgium, Remote 2022 – 2023

- **Led text search optimization** by designing data indexing and replication strategies using Elasticsearch, reducing query latency from **~1 sec** to **~100 ms per request (~90% faster)** across Ruby on Rails service endpoints
- **Redesigned Zendesk integration** by implementing Redis-backed caching, reducing polling from **30 queries/hour** to **1 query/hour** and cutting database overhead by **~97%**

Software Engineer, Itaú Unibanco – São Paulo, Brazil

2021 – 2022

- **Led architecture and development** of an internal low-code automation platform using Python and Flask, enabling **30+ non-technical users** to create automated workflows
- **Scaled data processing pipelines** by redesigning Python and SQLAlchemy ETL workers with asynchronous integrations and multithreading, supporting **1,000+ daily workflows**
- **Provided technical leadership for a team of 5 engineers**, guiding architecture decisions and delivery execution

Junior Software Engineer, Itaú Unibanco – São Paulo, Brazil

2020 – 2021

Project Management Intern, Itaú Unibanco – São Paulo, Brazil

2019 – 2020

Education

Bachelor of Science in Computer Science, Universidade Federal do ABC

Bachelor of Science in Science & Technology, Universidade Federal do ABC

Skills

Programming & Frameworks: Ruby (Ruby on Rails), Go/Golang (Gin), Python (FastAPI), TypeScript/Javascript (Node.js)

Tools & Solutions: Kafka, Redis, PostgreSQL, MongoDB, GraphQL, ELK (Elasticsearch, Logstash, Kibana), Prometheus, Protobuf, gRPC, Nginx, MCPs, LLM providers

Infrastructure & DevOps: AWS (RDS, SQS, EKS, EC2, S3, IAM, SSM), GCP (Cloud Run, Cloud Storage, Cloud SQL, GKE, Pub/Sub, IAM), Terraform, Docker, Kubernetes, ArgoCD, Git, CI/CD (Jenkins, GitHub Actions)

Languages: English (advanced), French (basic), Portuguese (native)