

Zoran Rebic

SENIOR GO BACKEND ENGINEER

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PROFILE

Senior Go backend engineer with 7+ years of experience building and owning backend services in distributed systems. Owns the full service lifecycle, from architecture and RFC/ADR design through implementation, observability, and migration. Turns open-ended backend problems into well-reasoned designs and carries them through to delivery.

WORK EXPERIENCE

Altessa Solutions | Senior Go Backend Engineer

June 2024 – June 2026

- Owned 5+ backend services end to end, from RFC/ADR design and gRPC implementation through release.
- Primary author of the Dictionaries service: gRPC + MongoDB reference data with cursor pagination, CEL validation/normalization, batch reads, and a Go SDK. Designed backward-compatible multi-locale support.
- Authored the RFC for multi-tenant full-text search on Meilisearch (shared indexes, signed tenant tokens, JetStream sync) and co-implemented the profiles search indexer.
- Developed NATS JetStream notification services for Email (multi-provider routing, webhooks, dynamic Lua scripting), Telegram OTP, Huawei HMS, and Android FCM push.
- Implemented asynchronous, event-driven Keycloak user provisioning over NATS: temp passwords, set-password emails, and Keycloak ID linked back to the profile.
- Engineered the Serbian APR/NBS SOAP integration: legal entity verification, MBR/PIB validation, rate limiting.
- Delivered the Russian FNS tax-receipt tracking service: SOAP integration, NATS JetStream async processing, leader election, S3 file storage.
- Shipped the domain and company screening service: WHOIS lookups, Redis singleflight, ETag caching.
- Strengthened platform reliability and observability: implemented the NATS JetStream stream recovery manager and MongoDB Change Stream recovery with resume tokens for payments anti-fraud, and added OpenTelemetry tracing and Prometheus metrics to transport layers. Maintained shared framework tools, conducted code reviews, and migrated services to the framework.
- Built CI tooling that uses the Claude API to automatically convert Protobuf schema changes into readable migration guides.

Mainflux Labs | Golang Software Engineer

June 2022 – April 2024

- Developed high-throughput IoT microservices using Go and go-kit, serving large-scale device messaging workloads.
- Designed gRPC-based inter-service communication layer, ensuring consistent and efficient data flow across the platform.
- Implemented reliable event-driven architectures using NATS JetStream and Mosquitto/MQTT for device-to-cloud messaging.
- Operated and optimized PostgreSQL and MongoDB for high-volume workloads.
- Implemented TDD for core microservices, improving reliability and reducing production bugs.
- Mentored junior engineers through code reviews and pairing sessions, promoting best practices in service design and observability.
- Contributed to frontend IoT dashboards (Angular) when needed, maintaining strong backend/platform focus.

Bloxico Solutions | Golang Contractor

October 2022 – December 2022

- Built a RESTful CRUD microservice in Go with AWS S3 integration for object storage.
- Implemented Swagger/OpenAPI documentation to standardize API usage.
- Automated database migrations to support reliable deployments.

Levi9 | Golang Software Developer

June 2021 – June 2022

- Developed and maintained backend microservices in Go and Java, including APIs built with FastHTTP supporting compressed requests.
- Implemented auth and security mechanisms: JWT, hashing, encryption, and API key management.
- Dockerized services and deployed through Jenkins CI/CD pipelines; built proxy services and GCP integrations.

AxiomQ Ventures | Backend Software Developer

January 2019 – June 2021

- Built backend services in Go and Ruby on Rails with REST APIs backed by MySQL and PostgreSQL (GORM).
- Used Gorilla and Echo frameworks; wrote unit and integration tests with mocks for reliability.
- Dockerized applications and deployed via GitHub Actions CI/CD.

TECHNICAL SKILLS

Languages & Engineering	Go, Distributed systems, Concurrency, Service design, RFC/ADR writing
Messaging & APIs	gRPC, Protobuf, REST, SOAP, NATS JetStream, MQTT
Data & Persistence	PostgreSQL, MongoDB, Redis, MySQL, Meilisearch
Infrastructure & Tools	Docker, CI/CD pipelines, Vault, AWS S3, Keycloak/OIDC, CEL
Observability & Reliability	OpenTelemetry, Prometheus, Grafana, Logging, Tracing, Distributed coordination, Idempotency patterns
Environment	Git, Linux/CLI, Shell scripting

LANGUAGES

Serbian: native

English: professional working proficiency

EDUCATION

Food Science and Technology, Master's degree

Faculty of Technology, University of Novi Sad, Serbia