

Nenad Radović *Backend & Distributed Systems Engineer*

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PROFILE

Backend and distributed systems engineer building cloud-native systems and AI infrastructure. At companies that I've worked in, I built and operated microservice architected applications on *Azure* and *Kubernetes*, using *Go*, *Python* and *.NET* - device analytics, multi-tenant IAM, and event-driven data pipelines for industrial systems, as well as agentic integrations, runtime governance and *AI software factories*. **MSc in Electrical and Computer Engineering**.

Drawn to the parts of the stack where correctness is hard - consensus, replication, failure modes, and what actually makes a system scale.

PROFESSIONAL EXPERIENCE

Backend & Distributed Systems Engineer (with Frontend experience), KEBA Group Oct 2023 – Sep 2026 | Novi Sad, Serbia
Driving the transformation of *KEBA*'s software ecosystem to cloud environments, with a part-time requirements engineering role working directly with stakeholders to define platform features.

- Designed and delivered on several projects, most notably a multi tenant system with 30+ microservices for [device analytics and fleet management](#), serving thousands of *KEBA* customers. Built event-driven data flows that support operational analytics and AI-assisted decision-making.
- Contributed to delivering [centralized platform](#) for *KEBA* employees and customers, used as a sales point, knowledge park and user management.
- Designed and helped with architecting a polyglot microservice architecture (*Go*, *Python* and *.NET* control plane(s) and services) on *Azure Kubernetes Service* with *RabbitMQ* and *Azure Service Bus* for event routing. Implemented transactional outbox pattern to eliminate message loss and dual-write inconsistencies when publishing events from thousands of concurrent devices & users. Optimized ephemeral storage I/O patterns across I/O-bound services processing high-volume device data for clustered environments.
- Operated an agent-orchestration pipeline (*AI software factory*) integrating *Claude Code* and *Foundry-backed agents* into feature development and code review workflows, with policy guardrails gating agent tools.
- Used *Angular* & *React* as go-to frontend frameworks / libraries. Contributed to optimization of several *Angular* applications.
- Contributed to design for production delivery on *Azure*. Operated the AKS-based platform (*ArgoCD* as *GitOps* solution, *Istio* as a service mesh, *PLG* stack for observability), handling rollouts and incident response, ensuring high availability and observability.
- Partnered with stakeholders as a requirements engineer to turn platform needs into implementable technical designs.

Teaching Associate, Faculty of Technical Sciences, University of Novi Sad Oct 2023 – Oct 2025 | Novi Sad, Serbia
• Taught *Distributed Systems & Algorithms* and *Modeling and Simulation* to hundreds of students. Specialized in consensus algorithms.
• Designed and graded lab exercises.

EDUCATION

Master's Degree, Faculty of Technical Sciences, University of Novi Sad 2024 – 2026 | Novi Sad, Serbia
Specialized in distributed systems, consensus algorithms, and fault tolerance. Did work on a variation of *BFT* algorithm network enhancements for my master thesis, with implementation in *Go*.

Bachelor's Degree, Faculty of Technical Sciences, University of Novi Sad 2020 – 2024 | Novi Sad, Serbia
Coursework in distributed control systems and software built for industrial workloads.

SKILLS

Languages & Frameworks

Go, Python, C#, Javascript / Typescript, SQL; ASP.NET Core (Refit, Minimal APIs), Flask, FastAPI, Chi, net/http, quic-go, gRPC, Protobuf, Angular, React

AI Agent Systems

Agent / tool API integration, Microsoft Foundry, runtime policy enforcement, governed tool execution. *Claude Code* / *OpenCode*

Distributed Systems & Security

Event-driven architecture, replication, fault tolerance, multi-tenancy, IAM (OAuth2, OIDC), BFT / consensus algorithms

Cloud & Platform Engineering

Azure (Azure Kubernetes Service, Blob Storage, Managed Redis, EntraId), Kubernetes, Istio, ArgoCD, Prometheus, Grafana

Data & Messaging

PostgreSQL, PostgreSQL logical replication / CDC, Redis, RabbitMQ, Azure Service Bus, etcd, Patroni, Meilisearch, Quickwit

PERSONAL PROJECTS

[watchd - recoverable PostgreSQL projection sync \(Go\), inspired by Databricks paper](#)

Cloud-native daemon using PostgreSQL logical replication (CDC) to keep service-local projections synchronized, detect stale state and safely recover after failures.

[Aegisora - Zero-trust runtime governance for AI agents \(Go, TypeScript\)](#)

Control/data-plane architecture that evaluates signed policy before agent tool and provider actions, producing auditable ALLOW, BLOCK, or ESCALATE decisions.

Open Source Contributions

From time to time, I like to contribute to open source projects, tied to every-day stuff I use. These are mostly backend systems, like [Superplane](#) and [kgateway](#), with 5 merged PRs.

AWARDS

Dositeja - Young Talents Fund for 2023/2024 and 2024/2025 academic years, *Issued by Fond za mlade talente Republike Srbije* 2025
Scholarship for the students enrolled at the higher education institutions in the final year of bachelor studies and the final year of master's studies for the 2023/2024 and 2024/2025 academic years.

Lumen Data Science Competition - Third Place, *Issued by eStudent, Croatia* 2024
A team competition that was focused on developing a predictive machine learning model which would help hotel staff in their estimation of hotel occupancy.