

RATOMIR VUKADIN

Senior Software Engineer & Solution Architect

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PROFESSIONAL SUMMARY

Software engineer and architect with 10+ years of experience designing and delivering production systems across cloud platforms (Azure, AWS, DigitalOcean). Strong track record in backend development (C#/.NET), distributed systems, Kubernetes orchestration, and Infrastructure as Code. Proven technical leader managing teams up to 10 engineers with hands-on system architecture ownership. Additional experience with React/TypeScript frontends, Python ML pipelines, and event-driven architecture.

CORE SKILLS

Languages: C#, TypeScript, Python, SQL, JavaScript

Backend: .NET 6–10 / ASP.NET Core, Azure Functions, AWS Lambda, RabbitMQ, Azure Service Bus

Frontend: React, Next.js, TypeScript

Data: PostgreSQL, MS-SQL, MongoDB, Cosmos DB, Redis, Azure Data Factory, Databricks

Cloud & DevOps: Azure (AKS, Container Apps, Functions), AWS (ECS/EKS, Lambda, Step Functions), Kubernetes, Terraform, GitHub Actions, Azure DevOps CI/CD

Architecture: Microservices, Modular Monolith, Serverless, Event-Driven (Inbox/Outbox), CQRS

Leadership: Technical Lead (teams up to 10), Architecture Reviews, Sprint Management, PDP Mentoring

PROFESSIONAL EXPERIENCE

IEHSOFTLABS | *Solution Architect & Team Lead* | Mar 2024 – Present

- Designed offline-capable lab management platform with two-level sync (device-level RxDB + lab-level RabbitMQ federation to cloud)
- Architected modular monolith with separated Identity service; all modules communicate via RabbitMQ using Inbox/Outbox pattern
- Led migration from on premises to AWS + DigitalOcean managed services with Kubernetes multi-namespace clusters
- Evaluated and rolled out Cursor AI across the engineering department as a member of the leadership team
- Manage team development through 1-on-1s and Personal Development Plans

Tech: C#/.NET, RxDB, RabbitMQ, Kubernetes, AWS, DigitalOcean

Devtech | *Software Engineer* | Jun 2022 – Feb 2024

- Built payment processing systems (B2B, loans, credits) compliant with EU financial regulations using Stripe
- Managed deployments via Azure DevOps and infrastructure changes with Bicep

Tech: C#, .NET Core, Azure DevOps, Bicep, Stripe

Mistral | *Technical Lead / DevOps Engineer* | Jun 2019 – May 2022

- Led teams of up to 10 engineers; owned architecture decisions, sprint management, and delivery
- Introduced KEDA to AWS EKS cluster for video frame processing, reducing pipeline time from 7+ hours to ~2 hours
- Built Big Data consolidation platform (Dynamics, Salesforce) on Azure Data Factory feeding Power BI via Analysis Services
- Implemented serverless data pipelines using AWS Lambda + Step Functions
- Maintained IaC (Terraform, ARM, CDK) for microservices on AWS ECS/EKS and Azure AKS
- Member of Discovery Team: created C4 diagrams, architecture blueprints, and delivery phase plans for new engagements

Tech: C#, Python, Terraform, AWS (EKS/ECS/Lambda), Azure (AKS/Data Factory), KEDA

Klika | *DevOps Engineer* | May 2018 – May 2019

- Managed ~2 TB Big Data platform on Azure; migrated ELT pipelines from Data Factory v1 to v2
- Migrated data processing from HDInsight (SQL) to Databricks (Python), improving performance and maintainability
- Established private VNets and secure entry points; owned end-to-end deployment process

Tech: Azure (Data Factory, EventHub, HDInsight, Databricks, Cosmos DB), C#, Python, NodeJS

Lanaco | *Software Engineer* | Oct 2016 – Apr 2018

- Developed taxpayer registration modules for Bosnia's Indirect Taxation Authority
- Led development of MS Visio workflow parser (XML) that generated dynamic web-based process steps
- Mentored 18 interns across 4 teams during Summer Internship 2017, establishing architecture and running Scrum

Tech: ASP.NET 4.6, C#, MS-SQL Server, IIS, TFS

Authority Partners | *Software Engineer* | Sep 2015 – Feb 2016

- Full-stack development on large-scale enterprise systems; supported intensive off-hours deployments

Tech: ASP.NET 4.6, C#, MS-SQL, Redis, AngularJS

CONTRACT ENGAGEMENTS

Solar-Prediction | *Solution Architect & Lead Engineer* | Contract

- Designed and built solar energy production forecasting system with day-ahead and intra-day predictions
- Developed custom ML prediction engine (CatBoost) replacing algorithmic approach; integrated weather APIs and energy exchange data
- Built multi-database architecture: MongoDB (weather models), Redis (caching), PostgreSQL (static data)
- Set up full IaC (Terraform), CI/CD (GitHub Actions), and Azure Functions + Container Apps infrastructure
- Built trader-facing React/Next.js portal with multi-parameter Plotly.js charts

Tech: C#, Python, React/Next.js, TypeScript, Azure Functions, Container Apps, PostgreSQL, MongoDB, Redis, Terraform

Quantum Solutions | *DevOps Lead* | Contract

- Migrated Norwegian startup from App Services to AKS, then to Azure Container Apps — significantly reducing costs
- Implemented CI/CD across 5 environments (DEV/QA/STG/PROD/Post-Prod) with full observability stack
- Managed IaC (Terraform) and cost analysis across multiple Azure subscriptions for 10–12 microservices

Tech: Azure (AKS, Container Apps, Service Bus, Cosmos DB), Terraform, Azure DevOps

2am Tech | *Software Engineer* | Contract

- Built CSV parsing algorithms consolidating multi-format health insurance data into unified models on AWS Lambda

Tech: C#, .NET 6, AWS Lambda

EDUCATION

B.Sc. Computer Science — University of East Sarajevo, Faculty of Electrical Engineering | 2011–2016 | GPA: 8.28/10

LANGUAGES

Serbian/Bosnian (Native) • English (Professional Working Proficiency)