

RATOMIR VUKADIN

Senior Software Engineer and Solution Architect

East Sarajevo, Bosnia and Herzegovina | ratomir@live.com | +387-65/211-581 | <https://ratomirvukadin.dev> | <https://www.linkedin.com/in/ratomir-vukadin-rvs/> | <https://github.com/Ratomir> | <https://www.credly.com/users/ratomir-vukadin>

PROFESSIONAL SUMMARY

Senior Software Engineer and Solution Architect with 10+ years of hands-on experience across software architecture, backend engineering, cloud platforms, DevOps, data systems, AI-assisted engineering workflows, and technical leadership. Experienced in designing modular monoliths, microservices, event-driven systems, offline-first platforms, serverless workloads, Kubernetes platforms, and production CI/CD pipelines for product teams and contract engagements.

CORE SKILLS

- Languages: C#, Python, TypeScript, SQL, JavaScript
- Backend: ASP.NET Core, .NET 6-10, Entity Framework Core, FastAPI, Pydantic, Alembic, Azure Functions, AWS Lambda
- Architecture: Microservices, Modular Monolith, Event-Driven Systems, RabbitMQ, Azure Service Bus, Inbox/Outbox, CQRS, C4 diagrams
- Cloud: Azure, AWS, GCP, Azure AKS, Azure Container Apps, Azure Functions, Azure Data Factory, AWS ECS, AWS EKS, AWS Lambda, AWS Step Functions
- DevOps and IaC: Kubernetes, Terraform, Bicep, Azure DevOps, GitHub Actions, CI/CD, Application Insights, Log Analytics
- Data: PostgreSQL, MS SQL Server, MongoDB, Redis, Azure Cosmos DB, Databricks, Azure Data Lake
- Frontend: React, Next.js, Angular, TypeScript, Plotly.js, RxDB
- Testing and Libraries: xUnit, Moq, Testcontainers, MassTransit, MediatR, FluentValidation, Scrutor, ErrorOr
- Leadership: Technical leadership, solution architecture, mentoring, coaching, sprint planning, architecture reviews, discovery workshops

PROFESSIONAL EXPERIENCE

IEHSOFTLABS - Solution Architect and Team Lead

Mar 2025 - Present | East Sarajevo, Bosnia and Herzegovina

- Designed an offline-capable laboratory management platform with two-level synchronization using RxDB on devices and RabbitMQ federation between local laboratories and cloud services.
- Architected a modular monolith with a separated Identity service and service-bus communication using RabbitMQ and Inbox/Outbox patterns.
- Led migration from on-premises infrastructure to managed services on AWS and DigitalOcean using Kubernetes clusters and multiple namespaces.
- Introduced Cursor AI across the engineering department and managed team development through PDP plans and recurring 1-on-1 meetings.

Technologies: C#, .NET, RxDB, RabbitMQ, Kubernetes, AWS, DigitalOcean, Cursor AI

Devtech - Software Engineer

Jun 2022 - Feb 2024 | Sarajevo, Bosnia and Herzegovina

- Built payment processing systems for B2B, customer-business, loan, and credit flows following European financial regulations.
- Used Stripe as the primary payment provider and supported deployment automation with Azure DevOps and Bicep.

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

Mistral - Technical Lead, Software Engineer, DevOps Engineer

Jun 2019 - May 2022 | Sarajevo, Bosnia and Herzegovina

- Led teams of up to 10 engineers, owned architecture decisions, sprint planning, critical issue resolution, and delivery planning.

- Introduced KEDA on AWS EKS for video frame processing and reduced processing time from more than 7 hours to approximately 2 hours.
- Built Azure Data Factory consolidation pipelines for Microsoft Dynamics, Salesforce, and internal systems feeding Power BI through Analysis Services.
- Maintained Infrastructure as Code for microservices on AWS ECS/EKS and Azure AKS using Terraform, ARM, and AWS CDK.

Technologies: C#, Python, Terraform, AWS ECS, AWS EKS, Azure AKS, Azure Data Factory, KEDA

Klika - DevOps Engineer

May 2018 - May 2019 | Sarajevo, Bosnia and Herzegovina

- Managed a 2 TB Azure Big Data platform and migrated ELT pipelines from Azure Data Factory v1 to v2.
- Moved processing from Azure HDInsight SQL workloads to Azure Databricks Python pipelines and owned secure deployment processes.

Technologies: Azure Data Factory, Azure EventHub, HDInsight, Databricks, Cosmos DB, C#, Python, NodeJS

Lanaco - Software Engineer

Oct 2016 - Apr 2018 | Banja Luka, Bosnia and Herzegovina

- Developed taxpayer registration and deregistration modules for the Indirect Taxation Authority in Bosnia and Herzegovina.
- Led development of an MS Visio XML workflow parser and mentored 18 interns across four teams during a software summer internship.

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

Authority Partners - Software Engineer

Sep 2015 - Feb 2016 | Sarajevo, Bosnia and Herzegovina

- Worked as a full-stack engineer on large-scale enterprise systems and supported intensive off-hours deployment windows.

Technologies: ASP.NET 4.6, C#, MS SQL Server, Redis, AngularJS, jQuery

CONTRACT ENGAGEMENTS

Solar-Prediction - Solution Architect and Lead Engineer

Contract | Remote

- Designed a solar energy forecasting platform with day-ahead and intraday prediction, inverter integrations, weather data, exchange data, and trader-facing portal workflows.
- Built Azure Functions and Container Apps infrastructure with Terraform and GitHub Actions, and developed Python/CatBoost prediction workflows.

Technologies: C#, Python, CatBoost, Azure Functions, Azure Container Apps, React, Next.js, PostgreSQL, MongoDB, Redis, Terraform

Quantum Solutions - DevOps Lead

Contract | Remote

- Redesigned Azure infrastructure from App Services to AKS and then Azure Container Apps to reduce cost and simplify operations.
- Implemented CI/CD, observability, alerting, Terraform IaC, and environment management across multiple Azure subscriptions.

Technologies: Azure, AKS, Azure Container Apps, Azure Service Bus, Azure DevOps, Terraform, Application Insights, Log Analytics

2am Tech - Software Engineer

Contract | Remote

- Built CSV parsing algorithms for consolidating multiple health-insurance data formats into unified models on AWS Lambda.

Technologies: C#, .NET 6, AWS Lambda

ADDITIONAL PROJECT AND ARCHITECTURE DETAILS

- Designed laboratory workflows covering sample intake, testing methods, pathogen and disease tracking, and final report status generation.
- Created deployment and architecture approaches that support both in-house laboratory installations and cloud migration paths.
- Prepared architecture blueprints, C4 diagrams, database schemas, infrastructure diagrams, responsibility matrices, and phased delivery plans during discovery engagements.
- Built serverless systems with AWS Lambda, Azure Functions, Step Functions, and the Serverless Framework.
- Supported mobile application deployment and distribution through Microsoft App Center, Apple TestFlight, and Google Play Console.
- Developed solar prediction algorithms in Python notebooks and compared model versions by absolute error and financial impact before moving to CatBoost models trained on plant history.

EDUCATION

B.Sc. Computer Science, University of East Sarajevo, Faculty of Electrical Engineering, 2011-2016, GPA 8.28/10

CERTIFICATIONS

Microsoft certifications and badges: <https://www.credly.com/users/ratomir-vukadin>

LANGUAGES

Serbian/Bosnian: Native

English: Professional working proficiency