

ALEKSANDAR MILINKOVIC

SOFTWARE ENGINEER / SOFTWARE ARCHITECT

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SUMMARY

With over a decade of extensive experience in software development, I have successfully navigated diverse domains such as insurance, fintech, e-commerce, and innovative SaaS startups. Throughout my career, I have contributed to small startups, founded my own ventures, and served in prominent roles within large international companies and institutions. My expertise lies in comprehending intricate challenges and employing cutting-edge technologies to deliver user-centric, scalable, and dependable software solutions. I excel in collaborative team environments and actively support fellow developers. Proficient in design patterns and SOLID principles, I specialize in Platform-as-a-Service cloud native solutions, with a focus on AWS and Azure. Native speaker in English, German, Croatian, and Serbian, I bring a multifaceted skill set and a proven track record of delivering high-quality software solutions across various industries.

EXPERIENCE

01/2021-
Present

Aleksandar Milinkovic Software Solutions

Software architect/DevOps Engineer/Solution Manager,

- (E-Commerce) Leading the technical aspects of an e-commerce platform on AWS, overseeing development and ensuring alignment with business objectives. Mentoring the development team, enforcing coding standards and managing the technical roadmap with a focus on adopting cloud-based solutions. Driving the adoption of agile methodologies and prioritizing cloud best practices. Manage vendor relationships, enforce AWS security measures, and optimize platform performance for a seamless customer experience.

- (Fintech) Working closely with business partners and users to analyze, define, implement and maintain technical requirements. Update all solution documentation to meet security and compliance requirements. Ensure good collaboration with various development teams (internal and external partners) and infrastructure areas during implementation, evaluation, security assessment and daily operations.
- (E-Government) Development and migration of existing services to the cloud (AWS, Azure). Design of new API interfaces and mapping of existing interfaces to the new cloud environment. Further development of a CI/CD pipeline in the AWS environment and the design of a completely new user management system in AWS. The main challenge was to understand the requirements of a legacy system and implement them efficiently and cost-effectively in the new cloud environment. Technologies used include various AWS services such as (IAM, S3, EKS, Api Gateway, Lambda), Azure DevOps, Kafka, Kibana, Grafana, Dynatrace, Jenkins, and Cloud CMS.
- (Automotive) Designing a robust and scalable cloud application for managing customer data using distributed cache and messaging systems like Redis and Kafka. Improving multiple existing services to be highly available, scalable, correct and efficient by rewriting existing code in Java and Python, removing redundancies and implementing new software and architecture patterns where needed. Setting up a data analytics platform in the Apache Ecosystem. Providing mentorship to the team and organizing workshops to ensure ongoing maintenance post-engagement.

04/2018 –
01/2021

Capgemini

Software engineer/Software architect

Working as a consultant with major clients on different projects spanning sectors such as insurance, banking, e-commerce and the automotive industry.

- (E-Commerce) Design and implementation of a scalable, secure and reliable cloud infrastructure solution using AWS and Terraform. Technical roadmap and implementation of a custom OpenID Connect authentication system. Improvement of existing processes and documentation including a custom self-documenting API using the AWS API gateway. Leading the technical direction and architectural vision of a large-scale enterprise product. Technologies used include AWS Cloud Formation, EC2, RDB, VPC, S3, Cloud Watch, Code Pipeline, Build and Deploy, Lambda, IAM, Route53, Docker, RedHat OpenShift, container virtualization and Git.

- (Banking) Requirements engineering, design and development of payment gateways and integrations for customers. Evaluation of technologies and prototyping of solutions. Development and integration of an automated integration testing framework for third party APIs. Managing an offshore development team in a time-sensitive setting. Technologies used include Java, Javascript, scripting languages, and Git.
- (Insurance) Analysis and design of customized solutions for a large distributed On-Prem legacy system. Planning the technical roadmap including migrations, updates, rollouts and opportunities to modernize the current system. Development of an automated CI/CD pipeline with Jenkins. Technologies used: Java, Jenkins, Docker, OpenShift, (CI / CD), Tomcat, Spring Boot, SQL and Svn.
- (Automotive) Development of a license management system in the Automotive industry. Focus on technical design and cross-team collaboration. Development of new functions within the product management roadmap. Technologies used include Salesforce, Javascript, Bootstrap and Git

03/2017 –
04/2018

Content Brainy

CTO/Tech Lead

Co-founder and CTO of a SaaS platform for social media analytics. Administration, planning and implementation of user-defined functions. The main focus was on the serverless architecture with AWS and Azure. Main responsibilities and duties were

- Setup and maintenance of an automated environment with Terraform and AWS CloudFormation
- Manage user accounts using IAM and configure cross-account deployments using AWS Code Pipeline, Build and Deploy
- Configure and provision Git repositories with branching, forks, tagging and notifications
- Provision of AWS resources such as EC2, VPC, S3, RDS, AMI, Cloudfront
- Installation of Apache Tomcat on EC2 instances and installation of build tools
- Provision and orchestration of microservices with Docker, Docker Swarm and Openshift
- Development and code audit in Java, Python and Node.js. Testing with test frameworks (JUnit, NUnit)
- Creation of drafts and documentation of the entire architecture
- Working with offshore development teams and maintaining a clear line of communication
- Forecasting and capacity planning
- Hiring and team management

01/2015 -
01/2017

INGIC

Full Stack Developer

Development of customized software solutions with a variety of Technologies, including front-end and back-end. Main tasks were

- Sharing of know-how about tools and techniques with the team and practical support
- Development, compilation, unit testing, integration, packaging and provision of the developed software
- Creating POCs and the latest features before they were incorporated into the product
- Knowledge of modern web development frameworks and tools such as React and Angular, HTML / CSS / javascript
- Providing reports to management and other stakeholders
- Working closely with marketing and business development with a deep understanding of the business behind the product to ensure the best possible development process

01/2015 -
01/2017

Freelancer

Full Stack Developer

As a freelance software developer across diverse platforms, I engaged in manual marketing and customer acquisition. I developed a variety of solutions for different clients, contributing to larger team projects or developing standalone products. Project durations typically ranged from a few weeks to a few months, depending on complexity and client resources. Notable successes in my portfolio include

- Development of a web-based live streaming platform for educational purposes with AWS and Azure
- Design and development of a social media application for the software development niche
- Development of various microservices for payment and processing integrations
- Management of email gateways with AWS SES and Workmail
- Development of admin and management panels with Javascript frameworks such as React and Angular
- Development and design of JSON-RESTAPIs with Node.js.

EDUCATION

2016-2019

**BSc Wirtschaftsinformatik,
Universität Wien**

- Tutor in the field of algorithms and data structures
- Excellent in project coordination

2019-PRESENT

**MSc Wirtschaftsinformatik,
Universität Wien**

- Focus on data science

LANGUAGES

- English (Fluent)
- German (Native)
- Croatian (Native)
- Serbian (Native)

CORE COMPETENCIES

Software design and architecture, database design, cloud architecture (AWS), experience in designing cloud models for Infrastructure-as-a-Service (IaaS), Platform-as-a-Service (PaaS) and Software-as-a-Service (SaaS), DevOps, Apache, Docker, RedHat, Kubernetes, OpenShift, Jira, Java, Javascript, Node.js, MS SQL Server, test frameworks (JUnit, NUnit), leadership & mentoring skills, Certified Scrum Master.

ADDITIONAL ACTIVITIES

- 2022/23
SHOPIFY APP DEVELOPMENT - CRAFTIV PRODUCT DESIGNER
Development of custom and public Shopify apps using the latest standards such as Shopify App Bridge and GraphQL that integrate seamlessly with merchant stores.
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- 2021
PROGRAMMING COURSE - NOVELTECH
Developing an online course for people who want to learn programming.
Basic concepts for understanding software development
- 2020
IOT - DIGITHON
Leading a team in the creation of a prototype for an intelligent waste management system with embedded software and Raspberry-Pi
- 2018
HACKATHON - LUCY
Second place at the Novathon Hackathon in Bratislava.
Development of an automated voice assistant application in the fintech sector
- 2017
DEV. FORUM - BYTESIP
Developing a forum for software developers where people can ask questions that can be answered for points. Similar to stack overflow

CONFERENCES

- **WKO Mechatronik & Automation 2023, New York**
- **AWS Summit 2022, Berlin**
- **DevOn Summit 2019, Utrecht**
- **AWS Summit 2019, Berlin**
- **We Are Developers Congress 2019, Vienna**
- **We Are Developers World Congress 2018, Vienna**
- **Innovation Summit 2017, Berlin**