Emir Husic

Senior Software Engineer

- Email: emirhusic63@gmail.com
- Phone: +46 70 94 94 634
- LinkedIn: linkedin.com/in/emir-husic
- GitHub: github.com/emir-husic
- Website: sw-tiger.com

Summary

Emir is an exceptionally skilled developer with expertise in various programming languages and frameworks. His true passion lies in engineering continuous integration pipelines and developing automation tools and processes to support development teams. Emir firmly believes in the significance of knowledge sharing as a core principle, recognizing its vital role in enhancing the quality of code deliveries.

His areas of excellence encompass automation, IoT, and security, making him an invaluable asset in any project. Emir takes immense pride in being a bridge that effectively connects business long-term goals with innovative IT solutions for both small and large-scale ventures.

Outside of office hours, Emir's dedication to his craft continues to shine as he runs his own company, specializing in creating websites for smaller businesses. Colleagues consistently describe him as highly responsive, ambitious, and a master problem solver, possessing vast knowledge in numerous domains.

Key Competences

```
AWS, CDK, DevOps, Continuous Delivery, Continuous Integration, Docker,
Git, GitLab, Infrastructure as Code, Gradle, Java, Spring, MySQL,
Fullstack Developer, .NET, C#, TypeScript, React, Bash, Shell, Automation,
YAML, Monitoring, JUnit, Swagger, JPA.
```

Education

Master of Science (MSc), Computer Science | Lund University (LTH) | Lund, Sweden | 2018

Work Experience

Netlight Consulting AB | Stockholm

Netlight Consulting AB is an consulting firm with approxicamtely 1,500 employees across 10 offices across 10 countries.

Senior Backend Developer | 2021 - Present

Emir enthusiastically joined the internal team to spearhead the re-design of the architecture and play a pivotal role in the development of an internal salary system. This essential system efficiently manages the annual salary updates for 1,500 employees and is actively utilized by HR and employee mentors on a daily basis.

With the implementation of the new and improved architecture, maintenance for the internal developers has significantly reduced, and the process of accurately adding new salaries has been remarkably streamlined. HR expressed immense satisfaction with these advancements, recognizing the positive impact on their operations.

Key Competences

```
Java, Spring Boot, Gradle, JPA, H2 DB, MySql, DB Versioning, Flyway,
JUnit, Swagger, Docker, Shell, Bash.
```

DevOps Engineer | 2021 - Present

Ensuring the seamless operation of critical internal systems is of utmost importance at Netlight, as they play a key role in supporting employees to maximize productivity and efficiency. However, managing a few internally developed systems can sometimes pose challenges in terms of tracking workflows and staying updated.

Enter Emir, the skilled DevOps engineer whose expertise has been instrumental in streamlining the team's interactions with these internal systems. His efforts have significantly improved the team's agility, allowing developers to effortlessly transition between projects with a sense of familiarity in the work processes, regardless of the project they are working on.

Emir's contributions have been multifaceted. He played a pivotal role in setting up templates for GitLab pipelines and Infrastructure as Code, streamlining the CI/CD process. As a result, the teams have experienced heightened efficiency in deploying projects to production, reducing bottlenecks and delays.

Moreover, Emir's keen focus on enhancing system reliability led him to implement proactive monitoring of applications. This monitoring approach has drastically reduced application downtime since developers can now preemptively address potential issues based on user feedback. Users' ability to report issues promptly has empowered the team to resolve problems before they escalate, resulting in increased user satisfaction and uninterrupted service.

In conclusion, Emir's work as a DevOps engineer has not only ensured the stability and reliability of crucial internal systems but has also enhanced the overall productivity and collaboration within the teams. His innovative solutions and improvements, including proactive monitoring, have been invaluable to Netlight's operations.

Key Competences

```
AWS, Docker, Infrastructure as Code (IaC), CDK, AWS Lambda, Cloudwatch,
Route53, Monitoring, Gitlab, DB Migration, MySql, JavaScript, React,
Typescript, Azure AD, YAML, Pipelines.
```

PwC Sweden | Stockholm

PwC Sweden is an auditing and consulting firm with approximately 3,800 employees across 130 offices throughout the country. PwC Sweden is the Swedish part of the multinational service company PwC LLP, which employs around 208,000 people in over 150 countries.

Senior Software Engineer | 2020 - 2021

Emir was brought into the project with the goal of implementing unit testing as part of the backend project, aiming to improve the quality of code deliveries. He laid the groundwork for testing in the project, conducted workshops for the team, and documented the process of writing tests in the project. Additionally, he configured CI/CD to execute and display the test results in the workflow. This gradually increased the team's confidence, as they were now informed when the code broke or a test failed. The quality of code deliveries improved, as the team could ensure that old functionality still worked through the use of tests. This was appreciated by developers who felt more confident in their deliveries and by product owners who experienced more stable code deliveries.

Key Competences

```
AWS, Automation, Bash, .NET, C#, Continuous Delivery, Continuous
Integration, DevOps, Docker, MySQL, NUnit, Test Automation.
```

Godhjälp - The GoodCause Foundation | Stockholm

The GoodCause foundation (founded in 2005) starts and runs companies that donate all returns to charity. Since the start, companies such as GodEl, GodFond, GodDryck, and GodHjälp launched. Together, the companies have generated over 72 million SEK, which through GoodCauses's charity's partners, has improved the world. In the pandemic, GodHjälp offered free home delivery of groceries and pharmaceuticals to people at risk of Covid-19 by establishing contact with volunteers who are willing to help.

Software Engineer | 2020 - 2020

Emir joined the project as an advisor because of his expertise and knowledge within the area of CI/CD. By investigating the current workflow and release pipelines and working closely with the team, Emir was able to observe the difficulties they were facing with their pipelines and documented them together with proposals on how to improve their flow. His work simplified the release process, making it easier for the team to perform code releases.

Key Competences

```
Azure, Automation, Coaching, Continuous Delivery, Continuous Integration,
DevOps, ReactJS, YAML.
```

Trafikverket - The Swedish Transport Administration | Stockholm

In order to meet the future expectations of a national traffic management system, the MTLIV project was initiated. The goal was to develop a new traffic management system based on micro-service architecture. The new system would mimic the previous one and contribute new functionality to meet future expectations.

DevOpsEngineer | 2019 - 2020

The teams were facing challenges when trying to set up the whole application locally, with many dependencies and prerequisites, the process was time-consuming. Emir developed a CTL (Command Line Tool) that simplified the set-up for the application locally. The CTL supported everything from setting up databases with data to getting the latest code, building it, and installing it on the local machine. Emir's work simplified the set-up process for developers and significantly reduced the set-up time.

Key Competences

```
Azure DevOps, Cake, C#, ElasticSearch, Filebeat, JSON, Kanban, Log4net,
Logstash, Monitoring, MySQL, .NET, .NET Core, NServiceBus, RabbitMQ, TDD,
Test Automation, TFS, Xunit
```

Backend Developer | 2019 - 2020

Trafikverket requested a solution for versioning a microservice architecture as a monolith. Emir - as a backend developer - designed the architecture for the microservice and implemented it using the Microsoft stack (C#, .net core, MSSQL). The service tracked the versions of all services the application consisted of at each point of a release. For each distinct combination, a unique identifier was created. The identifier made it easier for PL and managers to label the application's version using a single number that could be mapped to a list of services and their respective versions.

Key Competences

```
Azure DevOps, Cake, C#, ElasticSearch, Filebeat, JSON, Kanban, Log4net,
Logstash, Monitoring, MySQL, .NET, .NET Core, NServiceBus, RabbitMQ, TDD,
Test Automation, TFS, Xunit
```

Blog Posts

- [Automatic Software Version Bump Using GitLab CI/CD](#)
- [N-Layer Architecture In A Multi-Project Solution](#)
- [An Example of Why You Should Write Tests For Bugs Before Fixing The Problem](#)

Projects

Patient Journal

Emir developed a web interface for a cosmetical beauty salon to store patient data, including before and after pictures, simplifying their medical history and optimizing long-term results.

Nursing Delegation System

Emir created a web application to streamline the medical delegation process. Assistant nurses can take online exams, and their results are instantly accessible to nurses, automating the correction process and improving workflow efficiency.

Coding Cars

Emir's passion for computer science in the automotive industry led him to share his expertise in various online forums. He collaborates with like-minded enthusiasts to test applications and write scripts for altering vehicle software parameters.

Grocery List

To ease the process of shopping for groceries, Emir developed a personalized web application that creates lists of items needed for specific meals, preventing any missing ingredients during regular shopping trips.

Encrypted Web Channel

Driven by his passion for computer security and secure communication, Emir designed and developed a secure web channel. Users can connect and create secure phrases for encryption, ensuring private communication with select recipients.

Driver's License Quiz

Emir's dedication to helping others led him to develop software for preparing for the driver's test. The quiz gathers users' answers and provides comprehensive feedback, benefiting friends and family who appreciated the application.

Camera User Interface

Emir's commitment to improving his real-time skills led him to create software that connects to multiple surveillance cameras, providing real-time video footage. This project enhanced his expertise in communication protocol design and real-time aspects.

Bakery Simulation System

To enhance the production process of pastries in a bakery, Emir developed software with a user-friendly interface that simulated the entire process, from order to delivery. The aim was to showcase the advantages of such a program to the bakery.

References

Available upon request.