Elvir Vlahovljak

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EXPERIENCE

Software Engineer — Oct. 2023 - Present
Bloomteq

Industrial machinery and telematic modules

- Worked on Spring Boot and Angular based web applications that coupled industrial machinery and customer data
- Reduced the number of DB queries by up to 80% which drastically increased responsiveness of services
- Enabled test container re-usability decreasing the duration of local test suite by 30%
- Improved local development flow by swapping Gmail for containerized mail server and client

Fintech (finance management)

- Worked on Kotlin based microservices that processed payments and validated bank account details
- Integrated 3rd party API which reduced service latency by 80% and eliminated invalid data responses
- Investigated and fixed sporadically failing tests that often broke the CI/CD pipeline

Student Teaching Assistant — 2022 and 2023
University of Sarajevo, Faculty of Electrical Engineering

- Worked with a group of students to help them better understand OOP, memory management, error handling and I/O
- Assessed each student's knowledge after every laboratory
- Course: Programming Techniques
- Language used: C++

PROJECTS

DigiWallet | *ASP .NET Core, EF Core, MySQL, Docker, Github Actions* — Feb. 2023 – Jun. 2023

- Collaborated with a group of students to create backend for digital wallet web application
- Deployed entire application onto Linux based server and made it publicly available
- Reduced deployment time by 83% by converting manual deployment process to CI/CD pipeline

BubbleScale | *Kubernetes, Docker, Node.js, Autocannon, Bash* — Feb. 2023 – May 2023

- Created a containerized web application that performs CPU intensive task
- Deployed the image to Kubernetes cluster and created Horizontal Pod Autoscaller
- Used Autocannon to stress test the server and examine cluster behaviour with various configurations
- Increased number of requests per second that server can process by 120% and decreased number of connection timeouts by 90%

EDUCATION

University of Sarajevo, Faculty of Electrical Engineering — Sarajevo, BiH
Bachelor of Sciences in Computing and Informatics — *Oct. 2019 – September 2023*

SKILLS AND ABILITIES

Languages: Java, Kotlin, Javascript, C#, SQL, HTML, CSS, Python, PHP
Software: Git, Docker, Jenkins, Github Actions, Kubernetes, Apache, GNU/Linux
Hobbies: Cycling, Hiking, Volleyball, Table Tennis, Pool