Filip Zdelar

Title: Back-End Software Engineer
Experience: 5+ years
Country: Serbia

EXPERIENCE

Software Engineer

Panonit · 3/2017 - 4/2022

Significant projects were:

1. Auto Solver: Web application for auto-scheduling manager's schedule and optimizing the result. The position has required full-stack technologies, an understanding of the cloud, and high mathematics. Developed a solver that was only 5% slower than the best one available. However, the solution provided has over 40% higher-quality results on average. My role was designing, developing, and deploying key functionality on the back-end side of this web application. My responsibilities included developing and implementing key features on the backend of the web application, as well as ensuring its smooth operation on the cloud platform. As the project progressed, I also took on the role of mentoring junior software developers.
2. Cropsit: The project was a web and mobile application for detecting anomalies in plants. The detection uses deep neural networks for the classification of the leaves. I designed and implemented the backend systems, creating APIs and services that enabled communication between the front-end interface, databases, and various microservices.
3. I was involved in the development of a web server that had to communicate with remote digital advertising displays. Specifically, my role in this project centered around the back-end service, where I was responsible for managing external API calls within the software.

Software Engineer

Continental · 4/2022 -

The developer played an integral role in establishing autonomous communication between vehicles and remote servers (Ramsas 1.5 project).

Three core components:

1. Designed and implemented a custom nonrelational database.
2. Managed asynchrony transactions between two components on the 4th level of the OSI mode.
3. Establishing and maintaining secure connections between vehicles and remote servers.

Researcher

Codolis · 4/2022 - 9/2022

For this part-time job, I was involved in researching and training models for a project focused on building custom deep neural networks. These networks were specifically designed for the classification and synthesis of one-dimensional medical ECG signals, with the aim of automating the recognition of heart anomalies. The primary goal of the project was to expand the dataset size for classification by synthesizing additional data through adjustments to state-of-the-art models.

EDUCATION

Master of Electrical and Computer Engineering

Yet to be finished

Bachelor of Electrical and Computer Engineering with honors

Average grade of 9.69 out of 10

High School

Special mathematics program for gifted students, Grammar school "Jovan Jovanović Zmaj", Novi Sad, Serbia.

SKILLS

Backend:

- Main: .NET, C#, MySQL, RabbitMQ, Rest API, Microservices Architecture
- Others: MongoDB, GraphQL, Python

Cloud:

- Main: Azure, Docker
- Others: AWS

Other skills: React.js, Git, Scrum, Agile, CI/CD, Jenkins, Clean code, SOLID, Dry, DDD, Algorithms, Team management

CONTACT

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