

Minel Salihagić

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Motivated final-year software engineering student with experience in programming and software development.

Experience

Software Engineer Intern, **MAASU BH** July - Sep 2024

- Designed and developed embedded software for STM32 microcontrollers using C++, with a focus on GPIO (General-Purpose Input/Output), PWM (Pulse Width Modulation), and USART (Universal Synchronous/Asynchronous Receiver Transmitter) functionalities.
- Authored comprehensive technical requirements and documentation for GPIO, PWM, and USART interfaces, ensuring clarity and robustness for development and testing teams.
- Performed on-site testing and system validation of embedded systems, applying debugging and optimization techniques to enhance firmware performance for STM32 microcontrollers.

Projects

PMF Alumni - An app designed to enable connecting of former and current students of the Natuar Sciences and Math Faculty

- Collaborated with a multidisciplinary team to design and implement the PMF Alumni application.
- Took an active role in developing the backend using FastAPI, where I handled RESTful API endpoints for user management, authentication, and data retrieval.
- Leveraged Next.js to build a dynamic and responsive frontend, enhancing user experience through modern web design principles and efficient data fetching strategies.

Car Price Predictor

- Developed a full-stack application to predict used car prices using machine learning, based on data from OLX.ba.
- Built the backend to handle data processing using FastAPI and hosted it on Render.
- Create modern-looking frontend for user interactions using Next.js.
- The app provides accurate, data-driven price estimates for buyers and sellers. You can view the project at car-price.minelsalihagic.com/.

Asset Registry

- Used Node.js for backend and EJS for frontend development.
- Created a database using SQL to create an asset registry system.
- This solution enabled the generation of detailed reports, calculation of depreciation, and streamlined asset management.

Skills

Programming languages

JavaScript, Python, C++,
Java, CSS, HTML

Libraries and Frameworks

React.js, Next.js, Node.js,
FastAPI, Tailwind, Bootstrap

Tools and Platforms

Git, GitHub, Vercel, Render,
Adobe Package, IBM SPSS

Education

Prirodno-matematički fakultet, Univerzitet u Sarajevu

Bachelor of Mathematics –
Software Engineering - Ongoing

Soft skills

Communication, analytical thinking,
problem solving, organization, team
work

References

Dr. Sead Delalić
Associate Professor
Prirodno-matematički fakultet
Email: delalic.sead@pmf.unsa.ba

Dr. Samir Kadunić
Founder
Maasu GmbH
Email: samir.kadunic@maasu.de

Interests

Football, gaming, fantasy football,
hiking, DIY projects, politics