

Lana Mustafić

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EDUCATION

Faculty of Information Technologies, Džemal Bijedić University of Mostar

2021 - 2026

Bachelor of Software Engineering

Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Databases, Web Development (C#, .NET, Angular), Mobile Development (Flutter)

TECHNICAL SKILLS

Programming Languages: C#, C++, TypeScript / JavaScript, SQL, Dart

Frameworks: .NET / ASP.NET Core, Entity Framework Core, Angular, Flutter, RESTful API Development

Tools: Docker, Git & GitHub, SQL Server, Postman, Visual Studio / VS Code

PROJECTS

BetterMe - Full-Stack Task Management Web App

Technologies: .NET, Angular, SQL Server, Docker

- Built a secure task management platform with JWT authentication, task creation/assignment, filtering, and role-based access.
- Designed and implemented a **RESTful API** using **ASP.NET Core** and EF Core, managed **Angular** state with reusable UI components.
- Containerized backend and frontend with **Docker**; configured environment-based deployment for cloud hosting.
- Built features include Kanban boards, calendar views, habit tracking, and gamification elements to improve productivity.

eHospital - Hospital Management System

Technologies: .NET, Angular, SQL Server, Docker

- Architected modular hospital system supporting patient records, doctors, appointments, medications, and diagnoses.
- Designed **database schema, migrations**, and full **REST API** with **ASP.NET Core + EF Core**.
- Built **Angular admin dashboard** with form validation, routing, and CRUD workflows for 40+ entities.
- Implemented JWT authentication and role-based authorization for Admin, Doctor, and Staff.
- Dockerized full solution (**API + UI + DB**) for consistent development and simplified deployment.
- Integrated real-time dashboards, queue management, billing, pharmacy, and reporting modules.

NuaSpa - Spa Service & Appointment Booking Platform

Technologies: .NET API, Flutter (Desktop Admin & Mobile Client), SQL Server, Docker

- Developed a **Flutter Desktop Admin App** for managing services, staff schedules, pricing, and customer records.
- Built a **Flutter Mobile Client App** allowing customers to browse services, view availability, and book appointments.
- Implemented booking workflows, validation logic, and relational schema in a .NET REST API.
- Integrated **JWT authentication** with email & role-based access to differentiate Admin vs. Client permissions.
- Dockerized backend and database to support reliable development and streamlined deployment.

HONORS & AWARDS

Health Category Winner – Microsoft Imagine Cup Online Semifinals

Mar 2023

Microsoft

- Recognized in the Health category for developing **Mimea** a smart assistive system supporting individuals with dementia.
- Implemented memory assistance features, routine and medication reminders, facial recognition alerts, and voice-based interaction.
- Advanced through the Microsoft Imagine Cup Regional Semifinals and selected among top health-focused solutions.

First Place Winner – FIT Coding Challenge: Smart Living & Innovations

Jun 2023

Faculty of Information Technologies Mostar

- Awarded **1st** place for demonstrating innovation and practical real-world application with **Mimea**.
- Evaluated on technical execution, impact for target users, and project presentation quality.