

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 control.
- Designed **RESTful API** with ASP.NET Core + EF Core and implemented Angular state management with reusable UI components.
- Containerized backend and frontend with **Docker** and configured environment-based deployment to cloud hosting.

eHospital - Hospital Management System

Technologies: .NET, Angular, SQL Server, Docker

- Architected and implemented a modular healthcare system supporting patient records, doctors, appointments, medications, and diagnoses.
- Developed database schema, migrations, and complete REST API using ASP.NET Core and EF Core.
- Built an **Angular**-based admin dashboard with form validation, routing, and CRUD workflows for multiple entities.
- Implemented **JWT authentication** and role-based authorization to manage access across user roles (Admin, Doctor, Staff).
- Dockerized the solution (API + UI + DB) to enable consistent development and simplified deployment.

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.