

SANDEEP KONKA

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Summary

Backend-focused software engineering graduate (2025) with hands-on experience building secure, scalable REST APIs using ASP.NET Core, Entity Framework Core, and JWT authentication. Built a full-stack music rating platform with user ownership, AI-powered reviews using local LLMs (Ollama), and a clean service-based architecture. Strong foundations in C++, data structures, and problem solving.

Technical Skills

Languages: C#, C++, Python, JavaScript

Backend: ASP.NET Core Web API, Entity Framework Core, JWT Authentication

Databases: SQLite, SQL

AI/LLM: Ollama (local LLM integration), Prompt Engineering

Tools: Git, Swagger, REST APIs

Projects

Music Rating Platform (ASP.NET Core, EF Core, JWT, Ollama)

Designed and implemented a secure REST API allowing users to rate music with full CRUD operations and ownership enforcement via JWT claims. Implemented a service layer to encapsulate business logic and database interactions using Entity Framework Core with migrations. Integrated a local LLM (Ollama) to generate AI-based music reviews, with caching and regeneration support to optimize performance. Built a simple frontend consuming authenticated APIs.

SimpleEQ – Audio DSP Project (C++)

Developed a basic digital audio equalizer applying frequency-based filtering concepts using C++. Focused on signal processing fundamentals and efficient numerical computation.

Education

Bachelors in Computer Science

Loyola Academy, 2025