

# Aman Ray

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## TECHNICAL SKILLS

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**Languages:** C#, JavaScript, Python, SQL, HTML, CSS

**Frameworks:** .NET, ASP.NET Core MVC, Entity Framework Core, React, REST APIs, LINQ

**Databases:** Microsoft SQL Server, SQLite, Database Design

**Developer Tools:** Git, GitHub, Visual Studio, Swagger, Azure App Services

**Concepts:** Object-Oriented Programming (OOP), MVC Architecture, Multi-tier Applications, Agile/Scrum, SDLC, Debugging, API Development, Authentication (ASP.NET Identity)

## PROJECTS

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### Music Library – Full Stack Web Application

*ASP.NET Core MVC – SQLite*

- Designed and developed a full-stack music management system using ASP.NET Core MVC and SQLite.
- Implemented multi-tier architecture separating presentation, business logic, and data access layers.
- Built CRUD operations, filtering, and search features using Entity Framework and LINQ queries.
- Designed relational database schema to manage music collections, playlists, and metadata.
- Implemented authentication and authorization using ASP.NET Identity.

### Movement Unlimited – Client Charting System

*ASP.NET Core MVC – SQL Server*

- Developed a secure healthcare documentation system using ASP.NET Core MVC and SQL Server.
- Collaborated with stakeholders to gather requirements and translate them into technical solutions.
- Implemented SOAP-based clinical documentation workflows and session tracking.
- Designed relational database structures for storing patient records and session data.
- Built PDF upload/export features and role-based authentication using ASP.NET Identity.

### Tech Hackathon Management API

*.NET Web API – SQLite – Azure*

- Developed a RESTful Web API using .NET 9 for managing hackathon participants, teams, and projects.
- Designed relational data models and implemented CRUD endpoints for multiple entities.
- Implemented DTOs and metadata validation to control API responses and enforce data integrity.
- Integrated Swagger for API documentation and testing.
- Deployed the API to Microsoft Azure for cloud hosting.

### Hackathon Management Client Application

*.NET MAUI – C# – REST API Integration*

- Developed a cross-platform client application using .NET MAUI to interact with a Hackathon Web API.
- Implemented full CRUD operations to create, update, delete, and view member records.
- Developed dynamic filtering features allowing users to view members by Challenge or Region.
- Applied the Repository Pattern with interfaces to separate API communication from UI logic.
- Implemented error handling to display validation responses returned from the Web API.

### React Task Manager (To-Do Application)

*React – JavaScript – CSS*

- Developed a responsive task management application using React and modern JavaScript (ES6+).
- Implemented component-based architecture with reusable UI components.
- Managed application state using React Hooks such as useState and useEffect.
- Built features including task creation, completion tracking, and filtering.
- Implemented local storage persistence to maintain tasks across sessions.

## EDUCATION

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**Niagara College**

*Diploma in Computer Programming – Cumulative Average: 95%*

Welland, ON

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