# Anthony Arroyo

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## COMPUTER SKILLS:

**Languages:**

*C# 12, HTML5, SQL*

**Skills:**

*RESTful web services,* Agile methodology, Architectures, Software Development Lifecycle, *Management, SOA, OOD, DDD, Design Patterns, Machine Learning, Version Control, Project Documentation, Swagger API Documentation, Dependency Injection, Project Management, Client Management*

**Frameworks & Libraries:**

*.NET 8, .NET MVC 5, EntityFramework 6 + Core, Code-First, DataBase First, Bootstrap 4, Razor, FluentAPI, jQuery, Azure CLI*

**Software & Tools:**

*Visual Studio, Office, Visual Studio Code, SSMS, Postman, Jira, Azure Foundry, GitHub, Slack, HlghLevel, Zaiper*

**Major Projects:**

- *Martial Arts Academy Management Platform*
- *Chiropractic Practice Management CRM*
- Notes & Documentation Management Application
- Goal Tracking & Performance Metrics Application

## PROFESSIONAL EXPERIENCE:

***Gracie Tampa Network - Martial Arts Academy Management Platform***

*Designed and developed a custom academy operations management platform to support scheduling, memberships, billing, and attendance tracking for a martial arts school. The system was architected using a layered architecture, separating API, application services, domain logic, and data access.*
*Responsibilities and technical focus included:*

- *Designed the domain model around members, memberships, classes, instructors, and attendance records*
- *Implemented a RESTful API using ASP.NET Core utilizing clean architecture*
- *Applied Repository and Service patterns to isolate business logic from persistence concerns*
- *Created SQL schema leveraging Entity Framework Core (Code First)*
- *Built API concurrently, enabling future web or mobile frontends or other integrations*

***Ultimate Pain Care and Wellness Chiropractic - Chiropractic Practice Management CRM***

*Designed and implemented a practice management CRM for a chiropractic clinic to manage patient records, visits, follow-ups, and operational workflows. The system was designed as a headless backend with a strong emphasis on clean architecture and real-world business processes.*
*Responsibilities and technical focus included:*

- *Designed data models for patients, visits, visit types, follow-ups, notes, etc.*
- *Implemented domain-driven service logic to manage visit lifecycles and follow-up workflows*
- *Used Repository pattern for data access and Service layer for business rules and orchestration*
- *Built asynchronous CRUD and query operations using EF Core and LINQ*
- *Implemented DTOs and mapping to decouple API contracts from internal domain models*

***No Name Cannabis Company - Notes & Documentation Management Application***

*Designed and developed a personal knowledge management system focused on structured notetaking, tagging, and search. The application emphasized data organization, querying efficiency, and clean architecture principles.*
*Responsibilities and technical focus included:*

- *Designed a flexible note and tag domain model supporting many-to-many relationships*
- *Implemented search and filtering logic using LINQ and indexed queries*
- *Applied separation of concerns between controllers, services, and repositories*
- *Designed API endpoints optimized for incremental feature expansion*
- *Focused on system consistency and data integrity rather than UI-driven logic*
- *Structured the project to allow future enhancements such as full-text search and versioning*

***Independent Software Development Projects***

***-AudioQuiplash Application***

*Designed and built an interactive audio-based application focused on event-driven behavior, state management, and time-based execution. The system emphasized controlled randomness, delayed triggers, and predictable application flow in response to user interaction.*
Responsibilities and technical focus included:

- *Designed application states to manage idle, armed, triggered, and playback phases*
- *Implemented event-driven logic to handle randomized audio triggers and conditional execution*
- *Applied temporal logic to support delayed playback and controlled timing behavior*
- *Centralized core application behavior within service-layer logic to ensure consistent state transitions*
- *Structured the application for extensibility, enabling new audio rules, triggers, or behaviors to be added without modifying core logic*
- *Focused on clear separation between control logic and audio execution, improving maintainability and testability*

***-Goal Tracking & Performance Metrics Application***

*Architected and built a goal and habit tracking platform designed to track milestones, streaks, and progress analytics over time. The application focused on state transitions, temporal logic, and business rules.*

*Responsibilities and technical focus included:*

- *Designed entities for goals, milestones, check-ins, and progress states*
- *Implemented business rules around streak continuity, completion thresholds, and progress scoring*
- *Used a service-oriented architecture to centralize goal evaluation logic*
- *Built the application as a headless API, enabling future UI or mobile integrations*
- *Emphasized extensibility to support analytics, reporting, and user-defined metrics*

## ACADEMIC EXPERIENCE & SKILLS:

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| ***Architectures*** | ***Azure AI Engineering Certification*** | ***C# Certification*** | ***Software Development*** |
| ***Object Oriented Design/UML*** | ***Debugging*** | ***Web Services/APIs*** | ***Testing*** |

- *Developed an understanding of system-oriented software design, from modeling application logic to implementing maintainable backend code*
- *Translated abstract business requirements into structured technical solutions, including backend logic, data models, and workflows*
- *Applied object-oriented design principles and common design patterns to build readable and extensible codebases*
- *Built and consumed RESTful APIs, focusing on clear contracts, data flow, and separation of concerns*
- *Utilized strong debugging and troubleshooting methodologies to identify root causes across application and data layers*
- *Gained experience with testing fundamentals, validation logic, and error handling to support reliable backend behavior*
- *Demonstrated strong written and verbal communication skills, especially when documenting system behavior and technical decisions*

*REFERENCES FURNISHED UPON REQUEST*