

Nathan Damron

Software Engineer

Olathe, KS

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SUMMARY

Software Engineer with 5 years of full-stack development experience, including professional and self-directed projects. Built an ML-powered video processing system reducing workflow time by 83% and optimized APIs to cut latency by 97%, currently in active use for content production. Skilled in C#/.NET, SQL, Azure, and TypeScript/React.

PROJECTS

BarClip - Automated Video Editor | BarClip.com

September 2024 - Present

- Designed and built an automated video-editing application for weightlifting content, reducing editing time for batch videos from **1.5 hours to 15 minutes**.
- Developed a cloud-based MVP using React, .NET, Azure Functions, SQL, and SignalR, then pivoted to a local-processing architecture to reduce cloud costs and improve performance.
- Implemented computer vision workflows using YOLOv8 (ONNX) and FFmpeg for automated frame extraction, detection, and video trimming.
- Built a full end-to-end local workflow with .NET MAUI, integrating persistence with EF Core to automate YouTube content production.
- Iterated from a personal project into a fully functional tool used daily, demonstrating initiative and the ability to deliver complete solutions independently.

EXPERIENCE

Routine Innovation - Software Engineer | Merriam, KS

February 2025 - September 2025

- Architected audio processing microservice using Azure Functions, Event Grid, and Azure BlobStorage to eliminate audio processing bottleneck, reducing perceived API latency from **4.7 seconds to 100ms**.
- Refactored Playlist API from full-object updates to partial updates, reducing payload size by 80% for common operations and improving UX with faster, more flexible requests.
- Designed and implemented a secure authentication system using Azure B2C, integrating frontend and backend components to meet strict privacy requirements for sensitive audio data.
- Integrated third-party voice isolation to enhance audio processing stability, reducing retries and improving system reliability during development and testing.

SKILLS

C#, .NET, ASP.NET, MVC, SQL, Entity Framework, Azure, Git, GitHub, TypeScript, JavaScript, React, HTML, CSS

ACHIEVEMENTS

World Class Weightlifter

September 2012 - Present

- Competed in 22 international competitions, set 9 American records, earned 11 international medals, and won 7 national titles. Pan-American Champion with a best world placement of 5th, reflecting elite work ethic, persistence, and performance under pressure.