

# Nathan Damron

## Software Engineer

Olathe, KS

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### SUMMARY

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Software engineer with experience building full stack applications independently, as well as collaborating with a senior engineer on a paid development project.

### PROJECTS

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#### BarClip - Automated Video Editor

September 2024 - Present

- Trained a custom computer vision model (YOLOv8) to detect weightlifting plates, built an algorithm to translate detections into motion tracking, and automated the full video processing pipeline.
- Developed a cloud-based MVP with a React front end and a containerized Azure Function (Docker, Azure Container Apps) for video processing, then pivoted to a local-processing architecture to reduce cloud costs and improve performance.
- Set up a CI/CD pipeline using GitHub Actions to build and deploy the .NET MAUI iOS app to TestFlight, enabling on-device testing without access to Mac hardware.
- Repurposed the original web app's API, SQL Server database (EF Core), and Entra External ID authentication into the mobile app's backend, once local processing eliminated the need for cloud video handling.

### EXPERIENCE

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#### SelfTalk - Software Engineer (independent, paid project)

February 2025 - September 2025

- Architected audio processing microservice using Azure Functions, Event Grid, and Azure BlobStorage to eliminate a blocking delay in the client experience, 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 authentication (Azure B2C) integrating frontend and backend components to protect user uploaded audio content for a mental health focused affirmation app
- Integrated third-party voice isolation to enhance audio processing stability, reducing retries and improving system reliability during development and testing.

### SKILLS

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C#, .NET, .NET MAUI, ASP.NET, SQL Server, Entity Framework, Azure, Azure Functions, Azure Blob Storage, Microsoft Entra ID, Git, GitHub, TypeScript, JavaScript, React, YOLOv8, ONNX, HTML, CSS

### ACHIEVEMENTS

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#### World Class Weightlifter

September 2012 - December 2024

- 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.