

Nicholas Trimble

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SUMMARY

Software Engineer focused on building full-stack web applications and internal operational systems using C# and Python. Experienced with ASP.NET Core MVC, EF Core, service-layer architecture, and real-time systems using SignalR. Built production-style dashboards, workflow tracking tools, and data-driven reporting systems used for operational analysis in real environments.

PROJECTS

HospitalFlow — Hospital Resource Dashboard (Live Site) | [\[GitHub\]](#) 2026

C#, ASP.NET Core MVC, PostgreSQL, SignalR, Docker

- Built a real-time dashboard using SignalR to synchronize hospital room and equipment updates across clients.
- Modeled relational tracking of rooms and equipment using EF Core with async database operations.
- Implemented CRUD workflows for managing hospital assets and state transitions.
- Containerized and deployed using Docker and Render for consistent environments.

IncidentLink — Emergency Dispatch System (Live Site) | [\[GitHub\]](#) 2026

C#, ASP.NET Core MVC, PostgreSQL, SignalR

- Built a dispatch system for tracking incidents and assigning emergency resources in real time.
- Designed a service-layer architecture using dependency injection to separate business logic from controllers.
- Implemented rules preventing double-booking of resources during concurrent dispatch operations.
- Tracked assignment history using relational logging models with EF Core.
- Deployed on Render for live access and testing.

AssetOperations — Work Order Tracking System | [\[GitHub\]](#) 2026

C#, ASP.NET Core MVC, SQL Server, EF Core

- Built a work order system for tracking asset lifecycle and operational history in a facility environment.
- Implemented automatic audit logging using EF Core interceptors to track work order state changes.
- Added technician authentication and task claiming using ASP.NET Core Identity.
- Migrated from EnsureCreated to EF Core migrations for stable schema versioning.

EXPERIENCE

NDX Greens Dental

Dental Lab Technician / Software Developer (Part-Time)

Heber Springs, AR

May 2015 – Present

- **NDX - Doctors Dashboard** [\[GitHub\]](#)
- Built an internal Django dashboard to track remake trends across 200k+ lab records imported from Excel.
- Created reporting views used in management meetings to break down remake rates by doctor, department, and lab across 3, 6, and 12-month ranges.
- Added logic to flag recurring high-remake doctors so management could quickly identify problem accounts.
- Improved data processing by switching from full dataset reloads to rolling 12-month updates to reduce unnecessary computation.
- Built search-based filtering so users could pull doctor-level metrics without relying on fixed navigation or hardcoded reports.

TECHNICAL SKILLS

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

Frameworks: ASP.NET Core MVC, Entity Framework Core, SignalR, Django, Bootstrap

Tools: Docker, PostgreSQL, SQL Server, Git, Linux, Render, REST APIs

EDUCATION

Western Governors University

Bachelor of Science in Software Engineering

Salt Lake City, Utah

Jan 2025 – Aug 2025

- Completed the full degree program in 8 months by demonstrating competency through accelerated assessments.

CERTIFICATIONS

AWS Cloud Practitioner • CompTIA Project+ • ITIL 4 Foundation