

Nicholas Simmons

Software Engineer — C# / .NET

Akron, OH • 330-604-3735 • Ssimmons1617@gmail.com • linkedin.com/in/nicholas-simmons-dotnet • nicksimmons.dev

SUMMARY

C#/.NET software engineer with 9 years of experience building and shipping production applications end to end — WPF desktop clients, Blazor Server web applications, REST APIs, and Microsoft Azure cloud services backed by Microsoft SQL Server. Sole architect of a multi-tenant SaaS telemetry platform running in production today. Strengths in debugging, code review, network protocol implementation, and owning long-lived codebases from design through deployment and support.

SKILLS

Languages: C#, SQL (T-SQL), JavaScript, Python

Frameworks: .NET, ASP.NET Core, Blazor Server, Windows Presentation Foundation (WPF), Entity Framework Core

Cloud & Data: Microsoft Azure (Container Apps, Azure SQL), Docker, Microsoft SQL Server, REST API design, CI/CD

Networking: TCP/IP socket programming, MQTT, Modbus TCP, custom binary protocols, Wireshark

Practices: Git, Visual Studio, code review, multithreading & async programming, event-driven architecture, unit testing

EXPERIENCE

Senior Application Developer | Sturtz Machinery — Ohio 2023 – Present

- Architected and shipped a multi-tenant SaaS telemetry platform as sole developer: a .NET desktop agent that collects production data from customer SQL Server databases and reports to a Blazor Server dashboard with REST ingestion APIs, automated PDF/CSV reporting, and per-tenant data isolation.
- Designed and deployed the platform's cloud infrastructure on Microsoft Azure — Container Apps, Azure SQL, custom domain with TLS, and transactional email — and the container-based deployment pipeline behind it.
- Implemented network protocol drivers from raw wire-format specifications, including a TCP/IP device driver in JavaScript for an industrial OPC UA server and a Modbus TCP client library in C# for real-time equipment monitoring.
- Led migration of the flagship WPF application's data layer from ADO.NET to Entity Framework Core, establishing patterns adopted across the team.
- Built a standalone material-yield optimization tool (C# core library + WPF front end) implementing cutting-stock algorithms to reduce raw-material waste.
- Lead code reviews and mentor developers on a 5-person software team; own architecture decisions for new features.

Application Developer | Sturtz Machinery — Ohio 2017 – 2023

- Developed a ground-up WPF (C#) control application for the company's flagship product line as part of a 5-person team, taking it from architecture to customer release.
- Built the client-server communication layer over a proprietary TCP protocol, including connection recovery, structured error handling, and real-time data-change eventing.
- Created self-service diagnostic utilities that let customers troubleshoot equipment issues directly from the application, reducing support calls and on-site service visits.
- Owned the Microsoft SQL Server data layer — schema design, migrations, and data integrity — across a live installed base at customer sites throughout North America.
- Delivered features and fixes continuously for 6+ years on the same production codebase while supporting existing customers.

Field Service Technician | Sturtz Machinery — Ohio 2016 – 2017

- Led capital-equipment installations and customer acceptance testing, including CPK statistical process validation; trained new technicians through complete machine commissioning.