

Sean McHugh

Software Engineer | .NET Specialist | Cloud Infrastructure

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PROFESSIONAL SUMMARY

Experienced .NET and web developer with 12+ years building applications using C#, ASP.NET MVC, Web Forms, and SQL Server. Strong full-stack expertise in JavaScript, HTML/CSS, and database design. An AI-assisted development enthusiast, I'm seeking opportunities to radically improve development methodologies using new tools.

TECHNICAL SKILLS

C#, .NET Core, ASP.NET MVC/Razor, ASP.NET Web API, ASP.NET WebForms, Windows Forms, Blazor, Entity Framework, WCF, LINQ, AutoMapper, SQL Server, SQL, T-SQL, SQLite, PostgreSQL, JavaScript, HTML, CSS, React, TypeScript, Node.js, jQuery, Bootstrap, Webpack, REST APIs, AJAX, MCP, RAG, LangChain, Swagger/OpenAPI, Git, TFS, BitBucket, Jira, CICD, DevOps, Azure, Azure DevOps, Jenkins, IAC, Terraform, Ansible, Docker, Kubernetes, AWS, IIS, Linux, Unit Testing, Integration and functional testing, Selenium, Microservices, Xamarin, JIRA, Python, C++, BizTalk, XML

PROFESSIONAL EXPERIENCE

Software Architect

CloneZone

December 2024 - Present | Cincinnati

- Built OpenClone, a full-stack AI application demonstrating RAG-enhanced chatbots, deepfake integration, and voice synthesis
- Architected microservices solution with .NET/C# 8/React frontend and containerized Python AI services, deployed on Kubernetes
- Automated entire infrastructure with Terraform, enabling one-click deployment and monitoring on Vultr cloud

Software Engineer II - Deployment Lead

Mitchell International

September 2021 - December 2024 | Irvine

- Led migration of large, business-critical BizTalk (C# code behinds) system responsible for most of company bill intake from unsupported 2010 to AWS-hosted 2020 environment, eliminating severe HIPAA compliance risk
- Designed and implemented CI/CD pipelines with PowerShell, Ansible, and Azure DevOps, reducing BizTalk deployment time from 2 hours of manual effort to a single-click
- Innovated on legacy .NET/C# Forms integration test process by building a Blazor/C# app that cut artifact gathering time by 5 minutes per test
- Maintained and enhanced ASP.NET/C# MVC/Angular reporting portal
- Served as Scrum Master for cross-functional team using Azure Boards while coordinating with DevOps, infrastructure, R&D, and database teams
- Modernized development environment through GitHub migration and Infrastructure as Code, reducing setup time from days to minutes
- Maintained legacy .NET/C# Windows Forms application using Azure DevOps as the Build/Release pipeline.

Software Engineer II

Harris Products Group

March 2018 - September 2021 | Mason

- Rescued stalled VB6 to .NET/C# migration by hacking into lost source code and validating calculations with 30,000-case test harness using Win32 API
- Built Web API (C#) for IoT-enabled industrial welding equipment, enabling remote gas monitoring and usage analytics
- Created Xamarin (C#) framework with common UI/UX, SQLite, and MVVM components, significantly reducing mobile app development and maintenance time
- Developed mobile sales app with barcode scanning to match competitor products against Harris equivalents using a locally synced SQLite database

Software Engineer II

Making Everlasting Memories

April 2014 - March 2018 | Cincinnati

- Maintained and modernized ASP.NET (C#) MVC and Web Forms apps for funeral services, delivering full-stack fixes and feature enhancements
- Developed ASP.NET/C#/JavaScript memorial sharing app with QR code uploads and Facebook integration, enabling guests to create live photo/message displays during wakes
- Boosted obituary browsing performance 3x by identifying and eliminating redundant queries, cutting database load 10x per page
- Built ASP.NET MVC asynchronous queue system with SignalR to handle long video generation tasks, delivering real-time progress notifications while keeping servers responsive

Software Engineer

Vertical Solutions

September 2010 - April 2014 | Cincinnati

- Built offline-first data sync system with WebSQL/IndexedDB, allowing field technicians to capture and sync data seamlessly
- Developed mobile-first CRM with HTML5 and responsive layouts for cross-platform iOS/Android support

NOTABLE PROJECTS

JobSquirrel

<https://github.com/smchughinfo/JobSquirrel>

Built an AI-powered job application tracking and resume tailoring system that uses OpenAI and Claude APIs, with a Chrome extension for scraping job listings and an Express/React frontend—automatically generating targeted resumes from any job posting.

SimpleActivityTracker

<https://github.com/smchughinfo/SimpleActivityTracker>

Built SimpleActivityTracker (<https://simpleactivitytracker.app>), an activity tracking web app with React frontend and Node.js backend.

EDUCATION

B.S. Computer Information Systems

DeVry University

2005 - 2009

Relevant Coursework: Data Structures and Algorithms, Object Oriented Programming, Database Design, Client-Server Systems, TCP/IP Networking

CERTIFICATIONS & TRAINING

- AWS Certified Cloud Practitioner (2023)
- Andrew Ng's Machine Learning course (completed)
- OWASP Training