

# 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, Entity Framework, WCF, LINQ, AutoMapper, SQL Server, SQL, T-SQL, SQLite, PostgreSQL, JavaScript, HTML, CSS, React, Node.js, jQuery, Bootstrap, Webpack, REST APIs, AJAX, Swagger/OpenAPI, Git, TFS, BitBucket, Jira, CICD, DevOps, 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 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 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 Forms integration test process by building a Blazor app that cut artifact gathering time by 5 minutes per test
- Maintained and enhanced ASP.NET MVC/Angular reporting portal
- Served as Scrum Master for cross-functional team 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

### Independent Software Developer

#### Freelance

May 2019 - September 2021 | Cincinnati

- Taught programming fundamentals to 100+ students ages 8-12 through CodeWizards, developing curriculum delivery skills and seeing measurable improvement in students' ability to build on foundational concepts
- Developed two desktop applications for client using .NET and Electron

## Software Engineer II

[Harris Products Group](#)

March 2018 - May 2019 | Mason

- Rescued stalled VB6 to .NET migration by hacking into lost source code and validating calculations with 30,000-case test harness using Win32 API
- Built Web API for IoT-enabled industrial welding equipment, enabling remote gas monitoring and usage analytics
- Created Xamarin 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

## Automation Developer

[Genesys](#)

July 2017 - March 2018 | Indianapolis

- Developed Selenium-based integration tests for new CRM call center features, validating UI components and user interactions across multiple deployment environments

## Software Engineer II

[Making Everlasting Memories](#)

April 2014 - July 2017 | Cincinnati

- Maintained and modernized ASP.NET MVC and Web Forms apps for funeral services, delivering full-stack fixes and feature enhancements
- Developed ASP.NET/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 3× by identifying and eliminating redundant queries, cutting database load 10× 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

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[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

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### **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

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