

Derek Singleton

Full Stack Engineer • .NET • React • SQL Server

Punta Gorda, FL • 513-429-8888 • ds301056@gmail.com • devhorizon.io • github.com/ds301056

SUMMARY

Full-stack engineer who ships production software end to end across C#.NET, React, and SQL Server. At a 50+ person engineering firm, modernized a fragile internal platform — fixing broken authentication and migrating a legacy Access database to a normalized SQL Server schema — and grew it into an ecosystem of 10+ production applications used daily by 30+ people, reclaiming ~1,000+ engineering hours a year. Completing a B.S. in Data Analysis & Software Development.

TECHNICAL SKILLS

Core: C#, .NET Core / ASP.NET, Python, React, TypeScript, JavaScript, SQL Server

Frameworks & APIs: WPF, Revit API, Next.js, Tailwind CSS, FastAPI, Node.js, REST, OAuth2 / Entra ID SSO

Data, Testing & DevOps: SQL Server, Entity Framework Core, Pandas, Power BI, MongoDB, xUnit, pytest, Playwright, Git, Docker

AI & Automation: Claude Code, MCP servers, agentic workflows, custom skill design, SOP automation, prompt engineering

EXPERIENCE

Motz Engineering

January 2025 – Present

Software Engineer • Cincinnati, OH

Main developer of the firm's internal software platform — architecture, development, and deployment.

- Overhauled the firm's core project-delivery platform: fixed broken auth, migrated a legacy Access database (12 tables, no referential integrity) to a normalized SQL Server schema, and rebuilt it as a **WPF / .NET 9 app on Clean Architecture with EF Core**; automation reclaimed **~733 hours/year (~\$41K)** for **30+ daily users**, synced to Ajera ERP via ODBC.
- Built and maintain the **architecture behind the firm's Revit add-in suite** — the shared ribbon framework, authentication, structured logging, and database/data-access layer that the team's add-ins plug into — across four Revit versions (2023–2026).
- Built a **workforce-capacity forecasting platform** (Python/FastAPI + Next.js) that fuses Ajera ERP billing (ODBC) and Vantagepoint CRM pipeline data (REST API, OAuth2) into three forecast models and a 12-month KPI dashboard — a **~90% effort reduction** over the prior manual Excel process.
- Shipped a unified file browser indexing **7,113 projects with sub-second search**, an OCR document-intelligence tool indexing 10,000+ files (~50/min), and the company website (Next.js 15, React 19, Three.js, Supabase CMS).
- Authored **7 development-standards / SOP documents** and built a 4-server Model Context Protocol stack for AI-assisted development (Claude Code + CLAUDE.md enforcement); shipped 35+ releases via multi-channel, zero-downtime auto-updates to 30+ users.

Balluff

August 2023 – December 2024

Software Engineer • Cincinnati, OH

- Built **Node.js and Python data pipelines** polling 120+ industrial sensors across 12 systems (REST API, TCP/IP, UDP, EtherNet/IP) and real-time React diagnostics dashboards for PLC and sensor health.

EDUCATION

University of Cincinnati

Aug 2024 – Present

B.S., Data Analysis & Software Development • Expected Spring 2027

Cincinnati State

Aug 2022 – May 2024

Associate Degree, Software Development & Database Management

CERTIFICATIONS

AWS Certified Cloud Practitioner (Dec 2024) • AWS AI Practitioner • Next.js – JavaScript Mastery (Aug 2024)

In progress: Azure AI-102, IBM AI Engineering

PROJECTS

DevOverflow (Stack Overflow clone) — React, Next.js, MongoDB, OAuth. [live demo](#)

Oanda Auto-Trading — Python, REST API, MongoDB, pandas, React, cloud deployment. forex.devhorizon.io