Eric Warren

Software Engineer | Automation, Deployment & Production Systems

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Summary

Software engineer with 20+ years in technology, including 10 years as the sole developer of internal tools and automation for the staff who rely on them — gathering requirements from internal stakeholders, then building, deploying, documenting, and supporting the software in production. Works in Python, C#/.NET, SQL Server, Linux, and Microsoft Azure, with Git, CI/CD, automated tests, and pre-commit / CI quality gates.

Long-term sole-developer ownership includes business-critical applications, integrations, infrastructure modernization, migrations, and process automation: from an eight-year budgeting platform to a workflow system that reduced turnaround from more than 30 days to approximately four days. Currently completing a B.S. in Applied Statistics.

Technical Skills

- **Languages:** C#, Python, T-SQL / SQL, JavaScript
- **Cloud & Infrastructure:** Microsoft Azure; AWS — foundational experience including EC2/VPC concepts; Linux/Unix — working knowledge (Ubuntu Server, SSH) in command-line and container environments; Docker / Docker Compose; on-premises virtualization
- **DevOps & Delivery:** Git, GitHub Actions / CI/CD, automated testing, deployment documentation, pre-commit / CI quality gates; hands-on Terraform experience
- **Observability (hands-on):** OpenTelemetry, distributed tracing, W3C Trace Context, Jaeger
- **Backend & Integration:** .NET, ASP.NET MVC, Entity Framework, REST APIs; Vantaca, CINC, SenEarthCo, QuickBooks, Salesforce, OneLogin
- **Data:** SQL Server, Python reporting automation
- **Agentic Development:** Claude Code and similar agentic coding tools; specification-first workflows with agent hooks, automated tests, coverage checks, and pre-commit / CI gates (guardrail-project-skeleton)

Professional Experience

Ghertner & Company — Nashville, TN

Software Engineer / Programmer Analyst | 2016–Present

Sole developer responsible for designing, deploying, supporting, and improving custom production software used across the company.

- Own production applications on **Microsoft Azure** from requirements and implementation through deployment and ongoing support, using **C#/.NET and SQL Server.** Use **Git and GitHub Actions CI/CD** for recent development work, and maintain deployment documentation.
- Build and maintain **Python** reporting automation for management and staff: SQL-backed reports that combine in-house SQL Server and Vantaca data, including secondary property-management databases, plus web scraping of public records. Also built a FastAPI project-management app for the IT team, focused on company needs.
- Built and operated an HOA budgeting and financial-reporting platform for **eight years**, then served as **technical lead** for its migration to Vantaca, working with the business owner and a cross-functional team to design and implement a **20-step approval workflow.**
- Writing runbooks and maintainer documentation for each production system so it can be operated and changed without me.
- Reduced new-homeowner welcome-packet turnaround from **more than 30 days to approximately four days** by designing and deploying a tracking system that exposed process gaps and gave staff visibility into work in progress.

- Developed and supported a work-order, bid-management, and purchase-order system integrated with Vantaca; later led the transition of the work-order function to Salesforce while the bid and purchase-order components remained in production.
- Build and maintain integrations among **Vantaca**, **CINC**, **SenEarthCo**, **QuickBooks**, **Salesforce**, and **OneLogin**.
- Delivered production applications for financial approvals, meeting minutes, inspections, pool-key requests, and reimbursement workflows.

IT & Infrastructure | 2005–2016

Led technology operations and modernization as the company's primary internal IT resource.

- Led the company-wide deployment of **SenEarthCo**, including vendor evaluation, deployment planning, staff training, and integration with the accounting system.
- Modernized infrastructure through **on-premises virtualization** and migration from on-premises Exchange to **Google Workspace.**
- Supported successive property-management platform migrations, including **SKYLINE to CINC**, with deployment, data migration, integration configuration, and production support.

Education

- **B.S., Applied Statistics** — Indiana University (online) · *expected 2028*
  - Coursework in progress: Data Modeling & Inference (bootstrap, likelihood, Bayesian methods); Applied Linear Models (regression, diagnostics) — R
- **A.S., Science** — Olney Central College · *expected 2027*
- **Mechanical Engineering coursework** — Southern Illinois University · Thermodynamics, Heat Transfer, Energy Management, Strength of Materials, Calculus, Linear Algebra, Differential Equations, Probability & Statistics

Certifications

- **AWS Certified Cloud Practitioner** — expires 2028-07-26

Last updated: Oct 15, 2026