

Sean McCracken

Senior Software Engineer

seanmccracken.dev@gmail.com | 515.520.4041 | linkedin.com/in/seantmccracken

Software Engineer with 9+ years of experience building, testing, and supporting enterprise-scale applications using C#, .NET, and SQL Server. Strong background in system reliability, automation, and test engineering, with growing experience using Python for data processing, automation, and backend services.

Experience

UST – Remote

Lead – Software Engineering

Jan 2020 – Present

- Designed and enhanced secure .NET web applications supporting healthcare purchasing systems with custom role-based and location-based access control for internal and external users
- Implemented and maintained SQL Server-backed data solutions (views, stored procedures, SSIS, query optimization) to ensure accurate, high-performance access to pricing and purchasing data
- Partnered with stakeholders to translate complex healthcare access and pricing requirements into scalable, maintainable application features
- Built monitoring and reporting automation to proactively detect application, data, and integration issues in production environments

Software Development Engineer in Test

May 2016 – Jan 2020

- Designed and maintained Selenium-based automated test suites covering critical user workflows, role-based access, and core business use cases
- Built and executed regression testing frameworks to validate application stability across releases and prevent production regressions
- Partnered with engineers to identify root causes of failures, improve test coverage, and increase confidence in deployments

JCG LAND SERVICES – Nevada, IA

System Administrator

May 2015 – May 2016

- Designed and implemented foundational IT and system infrastructure for a growing organization
- Migrated business data from fragmented storage to centralized, secure digital systems

- Improved system performance and employee productivity through modernization and automation

ICS ADVANCED TECHNOLOGIES – Ames, IA

Tier III Support Technician

Feb 2011 – May 2015

- Expanded and supported a tiered technical support organization, including integration of an external call center for first-line triage
- Diagnosed and resolved advanced network and hardware issues across large-scale municipal deployments
- Developed monitoring and reporting tools to measure network health, uptime, and operational performance

Skills

Languages & Frameworks

ASP.NET, C#, FastAPI, Flask, JavaScript, PowerShell, Python, Razor Pages, React

Architecture, Security, & DevOps

Authentication & Authorization, CI/CD, Foundational AWS, Git, Jenkins, Logging & Diagnostics, Microservices, Role-Based Access Control (RBAC)

Databases & APIs

Entity Framework, PostgreSQL, REST APIs, SQL Server

Testing & Quality

NUnit, Postman, Selenium, Swagger

Education & Certifications

Iowa State University – Ames, IA

Bachelor of Science – Computer Engineering

Graduated 2014

ISTQB Certification

Certified Tester Foundation Level

Received 2016