

# Michael Kappel

Senior Software Engineer | Software Architect | AI / .NET / SQL / TypeScript  
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## PROFESSIONAL SUMMARY

Senior Software Engineer and Software Architect with 20+ years of experience delivering enterprise web applications, modernizing legacy systems, designing scalable architectures, and improving software quality across .NET, SQL Server, TypeScript/Angular, JavaScript, and AI-assisted engineering workflows. Primary stack: AI / .NET / SQL / TypeScript. Clear Angular experience includes an Info724 client AI documentation review app and LongTerm corporate tax accounting software. Strong fit for ASP.NET Core MVC, C#, Web API, Razor Pages, EF Core, ADO.NET, SQL Server, Angular/RxJS, cloud integration, semantic search, automated testing, CI/CD, performance optimization, and technical mentoring.

## CORE SKILLS

Languages, UI & Frameworks	C#, TypeScript, JavaScript, Angular, RxJS, ASP.NET Core MVC, Razor Pages, Blazor, Python, VB.NET, HTML, CSS, XAML
Backend & Data	Web API, REST APIs, EF Core, ADO.NET, SQL Server, SQL Azure, stored procedures, views, functions, transactions, indexing, recursive CTEs, data modeling, MySQL
AI & Automation	OpenAI API, LM Studio, ChatGPT, GitHub Copilot, LLM tooling, prompt engineering, agent workflows, semantic search, AI-assisted development, automated documentation, memory and handoff concepts
Architecture & Quality	Solution architecture, SOLID, dependency injection, design patterns, refactoring, parity validation, unit/integration testing, TDD/BDD, Gherkin-style thinking, code review
Cloud, Tools & Delivery	Azure, AWS, Azure DevOps, IIS, Microsoft Graph API, Power BI, DAX, Visual Studio, SQL Server Management Studio, Git, CI/CD pipelines, Agile/Scrum, mentoring

## PROFESSIONAL EXPERIENCE

### Info724 / Insurance 724 | Remote

Feb 2023 - Apr 2026

#### Sr. Software Engineer / Software Architect / Mentor

- Architected AI-assisted engineering workflows using OpenAI and LM Studio APIs; built an Angular/TypeScript AI documentation review app for an Info724 client so users could step through AI-generated documentation for existing codebases.
- Rebuilt a dental insurance contract-management platform using ASP.NET Core, C#, TypeScript, EF Core, Razor Pages, and SQL Server while preserving complex legacy business behavior.
- Created comparison screens and test coverage to validate that rebuilt claims-adjudication behavior matched the legacy platform before release.
- Maintained and enhanced a health-insurance application built with VB.NET Web Forms, ADO.NET, and T-SQL; translated legacy rules into safer modernization paths.
- Designed brokerage commission management and operational-reporting workflows on AWS with SQL Server transactional processing, Power BI data models, DAX logic, and reporting databases.
- Mentored junior developers on unit testing, design patterns, SOLID principles, enterprise architecture, maintainable TypeScript/Angular, and practical AI-assisted development discipline.

### C+R Research | Chicago, IL

Apr 2022 - Jan 2023

#### Sr. Software Engineer

- Built Microsoft Teams file-sharing and collaboration workflows in .NET Core and TypeScript using Microsoft Graph API, secure OAuth patterns, and resilient service integration seams.
- Implemented Azure Blob Storage patterns for checked-in document storage and asynchronous retrieval, supporting analyst working-file collaboration workflows.
- Integrated Mailjet and Mailgun messaging workflows and delivered responsive TypeScript/CSS client-side functionality with scalable backend dependency-injection patterns.

### Transportation Management Technology / Cogent | Oak Brook, IL

Nov 2015 - 2022 part-time

#### Software Engineer / Solutions Architect / Unit Testing Mentor

- Designed service-oriented logistics application patterns using JavaScript/TypeScript, RESTful ASP.NET services, MVC controllers, C# repositories, SQL Server stored procedures, and configurable integration components.
- Built custom authorization and authentication components aligned with Microsoft claims-based security and an existing enterprise database model.
- Enabled interoperability between desktop software, web applications, and cross-site workflows through shared services and single-login patterns; mentored developers on C#, JavaScript, TypeScript, Agile practices, and Microsoft platform tooling.

### ITSavvy | Addison, IL

Apr 2020 - Mar 2022

#### .NET Software Engineer

- Introduced Agile practices and Azure DevOps workflows to improve team delivery and visibility.
- Restructured software for dependency injection, unit testability, and practical automated testing strategy.
- Guided adoption of TypeScript and implemented QUnit-based client-side testing to improve front-end quality and reduce regression risk.

### LongTerm Software Solutions, Inc. | Warrenville, IL

Nov 2018 - Mar 2020

#### Software Engineer / Solutions Architect / Mentor

- Used Angular extensively on corporate tax accounting software; provided architecture, debugging, and roadmap repair across C#, TypeScript, Angular, RxJS, JavaScript, MVC, ASP.NET Core, Web API, Classic ASP, and SQL Server codebases.
- Used CI/CD pipeline practices and developed automated integration testing generated from stored procedures to validate thousands of business scenarios prior to deployment.
- Designed multithreaded document upload workflows connecting desktop and web applications through background processing and REST APIs; improved SEO foundations through sitemap, JSON schema, and URL strategy enhancements.

### RR Donnelley / TForce Worldwide | Bolingbrook, IL

Dec 2013 - Nov 2015

#### Lead Software Engineer / Retooling Mentor

- Led an Agile Scrum team building enterprise solutions with MVC 5, EF6, repositories, adapters, dependency injection, and automated unit tests.
- Applied SOLID design, repository patterns, adapters, Gherkin-style thinking, peer programming, code review, and test-driven development practices across distributed teams.

### Motozuma.com / BoostUp.com | Naperville, IL

Feb 2012 - Dec 2013

#### Enterprise Software Architect / Intern Mentor / CTO

- Migrated a fintech savings platform from VB.NET Web Forms to a multi-tier C# MVC architecture on Windows Azure and SQL Azure.
- Integrated US Bank and Authorize.Net payment APIs while supporting automated testing, Agile planning, stakeholder-driven product evolution, reliability, scalability, and maintainability.

## SunGard Financial Systems / FIS | Lombard, IL

Oct 2012 - Apr 2013

*Sr. Software Engineer / International Team Lead*

- Worked with an international team to build a stock-trading application for banking clients; improved C#, SQL, and UI performance.
- Developed XAML/WPF UI patterns with Prism and Unity Framework while mentoring the team on automated testing and testable code patterns.

## Magenic Technologies | Chicago, IL

May 2010 - Feb 2012

*Microsoft Certified Software Consultant*

- Delivered enterprise systems for equipment issue tracking and employee profile management.
- Collaborated with client teams to build maintainable layered applications from AJAX/WCF calls through SQL Server stored procedures using separation of concerns.

## Morse Data Corporation | Chicago, IL

Nov 2008 - May 2010

*Software Engineer*

- Developed enterprise management software for multi-channel merchants, publishers, and fulfillment providers; modernized C# applications from ASP.NET 2.0 to 3.5.
- Expanded SQL Server capabilities and improved application structure through layered models, helper components, caching, DAL patterns, and reusable UI elements.

## Unison UCG | Chicago, IL

Mar 2007 - Jul 2008

*Software Consultant*

- Built and improved applications for the City of Chicago and Chicago Airport System using ASP.NET, JavaScript, CSS, HTML, XML, SQL Server, and Oracle database objects.
- Worked with sensitive data daily and held Department of Homeland Security airport clearance.

## Consulting & Early Career | Chicago, IL

Apr 1999 - Jul 2008

*Software Developer / Graphic Editor / HTML Specialist*

- Delivered e-commerce and data-driven websites using ASP.NET, ASP, PHP, HTML, MySQL, SQL Server, Visual Basic, Classic ASP, and reusable dynamic-content patterns.
- Improved site speed, performance, compatibility, SEO foundations, Photoshop-to-HTML production, images, headers, footers, navigation, and light graphic-design support.

## SELECTED INDEPENDENT / PUBLIC PLATFORMS

- **UAIX.org**: Built and published Universal Artificial Intelligence Exchange standards for UAI-1, including specifications, schemas, examples, validator-backed proof workflows, OpenAPI route inventory, conformance material, governance pages, and AI Memory package tooling.
- **LLMWikis.org**: Created a public LLM Wiki handbook and starter bundle for durable AI-ready knowledge systems covering reviewed source pipelines, metadata/frontmatter, trust labels, governance, security boundaries, agent instructions, linting, and retrieval/graph navigation.
- **NeuralWikis.com**: Built a Python/MySQL AI model workspace concept around model trunks, adapter catalogs, evaluation lanes, review gates, and attribution ledgers.
- **JustAnlota.com**: Created compact messaging, canonicalization, Unicode-safety, registry-backed meaning, and validator-backed evidence-payload patterns.
- **Geotrackable.com**: Designed an AI-assisted geocaching trackable concept with route-first journey storytelling, exact code lookup, public journey maps, adult-managed teams, and community guidance.
- **MichaelKappel.com**: Created a retro terminal-style portfolio and project hub with a curated software-property inventory, lightweight content architecture, AI/agent-readable profile data, and a capability-resolver concept for recruiter/job-description matching.

## CERTIFICATIONS

- **Microsoft certification families**: MCP, MCPD, MCSD, MCITP, MCTS, Microsoft Specialist; Certified Scrum Developer (CSD).
- **Selected Microsoft credentials**: Web Developer 4; Windows Developer 4; Windows Azure Developer; Database Developer 2008; .NET Framework 4 Web Applications; .NET Framework 4 Data Access; SQL Server 2008 Database Development; SQL Server 2008 Implementation and Maintenance; .NET Framework 4 Service Communication Applications; .NET Framework 4 Windows Applications; Visual Studio 2010 Team Foundation Server Administration.

## SOFTWARE DEVELOPMENT COMMUNITY

Mentoring, code-review guidance, automated-testing advocacy, design-pattern knowledge sharing, and practical support around .NET, SQL Server, TypeScript/Angular, Python, and AI-assisted development.

## SELECTED TECHNICAL FOCUS

- **Angular / TypeScript**: Info724 AI documentation review app, LongTerm corporate tax accounting software, RxJS patterns, TypeScript modernization, responsive screens, and client-side regression testing.
- **Python / AI**: Python/MySQL AI workspace concepts, semantic search, prompt-engineering workflows, LLM-assisted documentation, reviewable handoff artifacts, and automation pipelines.
- **.NET / SQL modernization**: ASP.NET Core, EF Core, ADO.NET, SQL Server stored procedures, parity validation, legacy behavior comparison screens, and production reporting models.

## SELECTED BUSINESS DOMAINS

- **Insurance and healthcare systems**: Dental contract management, claims-adjudication behavior validation, health-insurance Web Forms modernization, brokerage commissions, Power BI reporting, and operational data workflows.
- **Research, logistics, and managed services**: Microsoft Teams collaboration, Graph API integrations, Azure Blob Storage workflows, transportation-management services, 3PL logistics, routing logic, and managed IT delivery.
- **Fintech, banking, public sector, and commerce**: Payment API integration, stock-trading UI performance, public-sector airport systems, e-commerce, fulfillment platforms, and multi-channel merchant management.

## TARGET ROLE FIT

- **.NET modernization**: Senior engineering or architecture roles involving ASP.NET Core, C#, SQL Server, ADO.NET/EF Core, legacy rescue, parity testing, reporting, and production support.
- **Angular / TypeScript full stack**: Roles requiring Angular/RxJS front ends, TypeScript API contracts, AI documentation workflows, CI/CD delivery awareness, API integration, Python utilities, metadata extraction, and automation pipelines.
- **Technical leadership**: Roles needing mentoring, code reviews, design patterns, automated testing strategy, cross-functional translation, and durable engineering practices across complex business domains.