

MARK C. MCFADDEN

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SUMMARY OF QUALIFICATIONS

Senior AI Developer with over 30 years of experience in Information Technology. Specializing in Agentic Orchestration Frameworks, enterprise RAG systems, and large-scale API governance. Proven track record of transitioning legacy enterprise infrastructures into modern, AI-driven ecosystems while providing strategic leadership and model lifecycle management.

TECHNICAL SKILLS

AI Orchestration:	Agentic Orchestration Frameworks, Multi-Agent Workflows, Enterprise RAG (Proprietary Synthetic Knowledge Systems).
Foundry Operations:	Azure AI Studio, Microsoft Foundry, GPT-4.1, Frontier SDKs, Model Evaluation & Validation.
Development:	Python, C#/.NET, Java, Modern Web Stacks, Hugo (Static Site Generation).
Cloud & Governance:	Azure API Management, IBM API Connect, Strategic Oversight & Technical Leadership.

PROFESSIONAL EXPERIENCE

Western & Southern Financial Group	01/2026 – Present
AI Developer III	

- **AI Architecture & Strategy:** Designing and maintaining sophisticated **Agentic Orchestration Frameworks** to manage complex, multi-agent workflows.
- **Enterprise RAG Systems:** Scaling an enterprise-wide RAG ecosystem across multiple business lines to transform internal knowledge into actionable organizational intelligence.
- **Model Lifecycle Management:** Overseeing the deployment and optimization of models within **Azure AI Studio**, **Document Intelligence**, and **Microsoft Foundry**.
- **Technical Leadership:** Governing broader technical infrastructure and ensuring cross-system stability and integrity.
- **Standardization:** Defining development standards through **Frontier API** definitions to provide consistent design templates and streamline developer onboarding.

Western & Southern Financial Group	03/2013 – 01/2026
Senior Software Developer II	

- **Generative AI Pilot:** Assisted in early RAG pipeline prototyping and integration of OpenAI APIs into enterprise workflows.
- **API Administration:** Set up and administered enterprise Azure and IBM API Connect gateways.
- **Full-Stack Development:** Developed .NET MVC web applications for on-demand correspondence and Java-based solutions for new business data.

- **System Integration:** Created Windows Services and Web Services for Service Oriented Architecture (SOA) using WebSphere and DB2.

Northern Kentucky University

08/2015 – 05/2023

Part-Time Faculty

- Taught Advanced Line of Business Application Programming and Database Courses.
- Instructor for Graduate-Level Information Technology Governance.
- Served as **GitHub Campus Advisor**.

US Bank

11/2000 – 03/2013

Application Developer

- Developed Java-based commercial banking applications and established automated build/test scripts using Ant and JUnit.
- **Full-Stack Implementation:** Implemented enterprise solutions using C# and SQL Server.
- Utilized Automated Testing Applications such as NUnit for Test Driven Development.

CERTIFICATIONS & EDUCATION

- **Microsoft Certified: Azure AI Fundamentals** (2024)
- **M.S. in Business Informatics** | Northern Kentucky University (3.86 GPA)
- **B.S. in Education (Summa Cum Laude)** | Ohio University

PERSONAL LABS & PROJECTS

- **Synthetic Hemispheres:** A creative laboratory for thematic UI engineering and localized RAG architecture (Lore-integrated Knowledge Systems).
- **Static Site Architecture:** Leveraging Hugo for high-performance, low-maintenance personal web ecosystems.