

I am an IT Solutions Architect and AI practitioner with more than 18 years of experience designing enterprise software, cloud-native platforms, and artificial intelligence solutions across the healthcare, finance, retail, and energy sectors. Throughout my career, I have been motivated by a desire to apply technology and research to solve complex, real-world problems that improve organizational efficiency and create meaningful societal impact.

My work focuses on developing intelligent systems that combine artificial intelligence, cloud computing, and data engineering to improve healthcare claims processing, fraud detection, interoperability, and data-driven decision-making. I enjoy translating emerging research into practical, scalable solutions that can be deployed in highly regulated environments while maintaining security, reliability, and compliance.

Beyond my professional responsibilities, I actively contribute to the scientific and engineering community through peer review, technical publications, mentoring, and professional service. I have served as a reviewer for international conferences and technical publications, a technical book reviewer, and a judge for innovation competitions and hackathons. I also enjoy mentoring students and early-career professionals, helping them develop technical skills and confidence as they begin their careers.

I am a Senior Member of IEEE, a Professional Member of ACM, a Member of AAAI, and currently serve as Chair of the IEEE Louisville Young Professionals Affinity Group. In this role, I organize technical programs, promote collaboration between academia and industry, and encourage professional development through workshops, mentoring, and community engagement.

My research interests include trustworthy AI, agentic AI systems, healthcare informatics, cloud-native architectures, explainable AI, and intelligent automation. I believe that scientific discovery has its greatest impact when it leads to practical solutions that improve people's lives. Through my research, professional service, and technical leadership, I strive to contribute to the responsible advancement of artificial intelligence and foster stronger collaboration between researchers, practitioners, and the broader scientific community.