

REZA PARVASI

AI Engineer | Enterprise LLM Applications · C#/.NET · Azure OpenAI · RAG

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PROFESSIONAL SUMMARY

AI Engineer and full-stack .NET developer with 8+ years building enterprise-scale applications on Microsoft Azure, now focused on designing and deploying intelligent AI systems for internal business operations. **Expert in C#/.NET full-stack development with Advanced Azure and DevOps capabilities, combined with hands-on prompt engineering and growing expertise in RAG pipelines, Azure OpenAI Service, and Microsoft Semantic Kernel for enterprise AI applications.** Brings 8+ years of energy-market domain experience from enterprise software development across 10+ US ISO clients, with a proven ability to own end-to-end cloud deployments and translate complex business requirements into reliable, production-grade AI solutions in regulated environments.

CORE COMPETENCIES

AI & Emerging Technologies

Azure OpenAI Service · Semantic Kernel · RAG Architecture · Vector Databases · Agentic Workflows · Prompt Engineering · LLM APIs (Anthropic / OpenAI) · Claude Code

Cloud & DevOps

Microsoft Azure · AKS · Azure DevOps · Docker · Kubernetes · Helm · CI/CD Pipelines · NuGet

Microservices & APIs

ASP.NET Core · REST · SOAP · WCF · RabbitMQ · Entity Framework · Microservices Architecture

Frontend Engineering

WPF / MVVM · React · AngularJS · HTML/CSS · Bootstrap

Data & Persistence

SQL Server · Stored Procedures · Triggers · Redis Caching · Data Modeling · ADO.NET · MongoDB · DuckDB · PostgreSQL

Software Engineering

Clean Architecture · SOLID Principles · Design Patterns · TDD · Agile / Scrum · Code Review

Languages & Runtimes

C# · .NET 8 / Core / Framework · T-SQL · Python (learning) · TypeScript · JavaScript · PowerShell

Quality, Security & Tooling

SQA & Vulnerability Scanning · NLog · PowerShell Automation · Git · Visual Studio

PROFESSIONAL EXPERIENCE

Energy Exemplar (formerly Adapt2 Solutions — acquired 2025) *Sep 2017 – Mar 2026*

Senior Full-Stack Cloud Software Engineer · Houston, TX · Promoted from Software Engineer

Delivered end-to-end engineering across the Adapt2 Trade-to-Tag (T2T) and Bid-to-Bill (B2B) enterprise platforms serving 10+ US ISO energy clients. Grew from new-grad Software Engineer into technical leader driving cloud modernization, AI adoption, and team mentorship.

Cloud Migration & Platform Architecture (2022 – 2026)

- ▶ Pioneered AI-augmented engineering practices using Claude Code as a daily development accelerator for microservice scaffolding, complex debugging, container design, and code refactoring — achieving 10–20× faster delivery cycles versus traditional workflows.
- ▶ Led end-to-end design of cloud-native distributed systems on Azure Kubernetes Service (AKS), containerizing legacy monolithic applications into microservices and owning deployments across DEV / QA / UAT / PRD environments on Azure.
- ▶ Architected Azure DevOps CI/CD pipeline overhaul incorporating automated build quality gates, SQA security vulnerability scanning, NuGet package management, and multi-stage release automation — reducing manual deployment overhead and improving compliance.
- ▶ Mentored junior and mid-level engineers through structured code reviews, onboarding, and knowledge-transfer sessions enforcing SOLID principles, clean architecture patterns, and microservices best practices.
- ▶ Coordinated requirement gathering, design reviews, and delivery with offshore and onsite teams across six product modules, ensuring on-time releases in a regulated energy-market environment.

Adapt2 Trade-to-Tag (T2T) Platform — Primary Project

- ▶ Engineered high-throughput tag management microservices in C# / .NET that processed 5,000+ energy trade transactions monthly across multiple US ISO clients, ensuring full NAESB standards compliance for energy flow reporting and regulatory submissions.
- ▶ Designed reactive WPF/MVVM front-end modules with DevExpress for complex trade data visualization, tag template management, bulk operations, and pre-submission validation — dramatically reducing client error rates before regulatory deadlines.
- ▶ Built event-driven backend services integrating ASP.NET Core REST APIs with RabbitMQ message queuing for reliable, decoupled inter-service communication at enterprise scale across multi-tenant energy market data flows.
- ▶ Optimized SQL Server stored procedures, query execution plans, and transactional data models handling high-frequency energy market data — improving response times and system throughput under peak trading loads.
- ▶ Developed NAESB API integration layer enabling automated energy trade tagging, cost and volume calculation, and real-time compliance tracking across interconnected ISO market participants.

Adapt2 Bid-to-Bill (B2B) Platform

- ▶ Delivered full-stack development across WPF/.NET frontend and ASP.NET Core / SQL Server backend for enterprise energy billing and settlement workflows used by major utility clients.
- ▶ Implemented complex C# business logic, data access layers, WCF-based Windows services for file processing pipelines, and external energy market API integrations — applying caching, error handling, and performance profiling to reduce latency.
- ▶ Integrated automated testing frameworks and code quality tooling into the development workflow, improving maintainability of a large-scale, long-lived enterprise codebase.

AI & EMERGING TECHNOLOGIES (ACTIVE DEVELOPMENT)

AI-Augmented Engineering & Agentic Systems

2024 – Present

- ▶ Building and designing RAG pipelines end-to-end: document ingestion, semantic chunking, embedding generation, and vector database retrieval using Azure AI Search, Chroma, and Pinecone for grounded LLM applications on Azure.
- ▶ Integrating Azure OpenAI Service into .NET application design patterns, including chat completions, function calling, and structured output for AI-powered enterprise tools without compromising reliability or security.
- ▶ Studying Microsoft Semantic Kernel (native C#/.NET AI framework) and LangChain for orchestrating multi-step LLM reasoning chains and tool-use agents directly applicable to .NET enterprise systems on Azure.
- ▶ Exploring agentic AI workflows using multi-agent orchestration frameworks (AutoGen, CrewAI, LangGraph, Semantic Kernel agents) to design autonomous AI pipelines for complex, multi-step enterprise workflows.
- ▶ Daily practitioner of Claude Code as a primary engineering accelerator for microservice scaffolding, legacy code analysis, test suite generation, and containerization, consistently delivering complex features in a fraction of traditional development time.

EDUCATION

University of Houston

2017

Bachelor of Science in Computer Science

Honors: Dean's List (2 semesters) · Good Academic Standing (4 semesters)

Key Coursework: Algorithms & Data Structures · Artificial Intelligence Programming · Software Engineering · Computer Architecture · Database Systems · Interactive Computer Graphics · Software Design