

Anuj Agrawal

C#/.NET Software Engineer & Application Architect | AI / LLM Systems | Azure Platform

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Hands-on C#/.NET engineer & application architect, 14+ years in tax and financial software. Builds production **APIs, event-driven and distributed systems**, and **AI/LLM applications** on **Azure**. Owns the platform under them too - **2 full-estate Azure migrations, Terraform** across **500+ VMs, sub-4-hour DR** - and sets the architecture standards teams build on.

TECHNICAL SKILLS

Software Engineering: C# / .NET 10 | ASP.NET Core / Web API | async / concurrency | unit / integration testing (xUnit / NUnit) | SQL Server / Entity Framework | TypeScript / React / Next.js

AI / LLM Systems: Microsoft Foundry (Azure AI Foundry) / Azure OpenAI | RAG (Retrieval-Augmented Generation) / Azure AI Search / embeddings | Semantic Kernel | LLM evaluations / LLM-as-judge | tool / function calling | content safety | agentic workflows | MCP

Distributed Systems, APIs & Data: microservices / REST APIs | Service Bus / RabbitMQ | AKS / Kubernetes / KEDA | Cosmos DB | Redis / caching | Python / pandas / NumPy / Numba | Polly | observability: Application Insights / Datadog / Azure Monitor

Cloud & Delivery: Azure / AWS | App Service / Functions / API Management / APIM | Infrastructure as Code (IaC): Terraform / Bicep / ARM templates | Entra ID (Azure AD) / OAuth 2.0 / OIDC / RBAC | Docker | CI/CD / GitHub Actions / Azure DevOps | Claude Code / GitHub Copilot

PROFESSIONAL EXPERIENCE

Thomson Reuters | Austin, TX / Remote

May 2023 - Present

Associate Cloud Architect | *software, AI, and cloud architecture* | *tax platform, 23K+ tax professionals*

- **Designed application architecture:** C4 reference models; secure API, identity, and Azure PaaS patterns.
- **Built distributed systems:** three-lane Service Bus routing with KEDA-scaled AKS consumers.
- **Built AI / LLM assistant (ASP.NET Core):** production-ready chat - Semantic Kernel, RAG, SSE streaming, **9 authorized tools** - UI actions from verified tool results, **sub-second first token**.
- **Hardened AI security & guardrails:** parent-session token exchange, per-user authorization, content safety, audit logging, rate/token limits - behind private endpoints.
- **Delivered evaluation & agentic tooling:** **17-case** deterministic + LLM-as-judge harness, **100% pass** vs a 60% CI gate; team-adopted platform - **8 agents, 7 AI CI workflows**, MCP, **10+ repositories**.
- **Built full-stack AI tools:** Next.js / React / TypeScript apps turning natural language into Azure Resource Graph and SQL queries - schema-grounded, with contextual follow-ups and multi-env auth.
- **Engineered data & FinOps pipelines:** leadership's two-year cloud budget - **~8.5K cost combinations** within ~6% of an independent finance model; **~six-figure annual** optimization candidates.
- **Owned Azure platform & migration:** acquired estate into a governed tenant; Terraform across **500+ VMs, 20+ modules, 4 environments**.
- **Led disaster recovery:** controlled cross-region failover/failback at a **sub-4-hour RTO**.
- **Drove security remediation:** **100+ CVE and EOL-runtime findings** closed.

SurePrep LLC | Irvine, CA / Remote

Jun 2016 - Apr 2023

Acquired by Thomson Reuters, 2023 | 250K+ taxpayer accounts, 4M+ document submissions

Cloud Application Architect

Feb 2020 - Apr 2023

- **Replatformed SoftLayer to Azure:** application hosting, network, Terraform foundation.
- **Migrated petabytes to Azure:** ExpressRoute across dozens of servers, two-month windows.
- **Planned tax-season capacity:** batch autoscaling, estate-wide **~4,000-core** Azure plan.
- **Established the company's first cloud & DevSecOps foundation:** Azure and AWS; Azure DevOps CI/CD; SonarQube and Veracode gates for **100+ engineers**.

Senior Software Engineer

Jun 2016 - Feb 2020

- **Built product features:** C# / ASP.NET Web API and React / TypeScript across document ingestion, questionnaires, letters, payments, and identity verification.
- **Tuned performance & concurrency:** async/await fixes, a shared HttpClient header race resolved per-call, Polly retry/circuit-breaker, Redis auth caching, Azure SQL read replicas.
- **Secured multi-cloud document delivery:** Azure compute, S3 presigned URLs, Cloudflare, CloudFront; Stripe, Plaid, PDFTron, and Twilio integrations.

EARLIER EXPERIENCE

Wolters Kluwer - CCH | India

May 2012 - Jan 2015

Senior Software Engineer

- **Built CCH Axxess modules:** C# / WPF / WCF / SQL Server; memory-leak and upgrade fixes.

Accenture | India

Aug 2011 - May 2012

Associate Software Engineer

- **Built CPOE features:** order-entry workflows and UI for a major U.S. cancer center.

SELECTED TECHNICAL PROJECTS

Event-Driven Trading & Quant Research Platform

2023 - 2026 | private repos

.NET 10 | MongoDB | RabbitMQ | WebSockets | Refit | Polly | Python (pandas / NumPy / Numba)

- **Built the order engine:** partial fills, OCO groups, cancel/replace, and restart recovery.
- **Accelerated research:** Python/Numba over **11 futures instruments**, **~8 years** of one-minute data, **~12x faster** columnar loading, holdout/walk-forward validated.

MoneyJog - Privacy-First Personal Finance Platform

2026 | moneyjog.com (live)

Next.js 16 | React 19 | TypeScript | Cloudflare Pages / Workers | Vitest | Playwright

- **Production build:** 43 calculator routes, 376 pages, 344 tests, 50-state + DC tax engine.

EDUCATION

M.S., Computer Science | Clemson University, USA

Jan 2015 - May 2016

B.E., Electronics Engineering | Nagpur University, India

Jul 2007 - Jun 2011