

ANUJ AGRAWAL

Cloud & Application Architect • Azure Platform • .NET • AI / LLM Systems

Austin, TX Metro • anuj.geek@gmail.com • (949) 864-6811 • anujgeek.com • linkedin.com/in/anujgeek • github.com/anujgeek

Work Authorization: H-1B (transfer eligible) • Approved I-140

SUMMARY

Designs and builds – the Azure platform, and the .NET services that run on it.

Fourteen-plus years in tax, accounting, and financial software, spanning cloud architecture and hands-on .NET development. Architected and executed two full-estate Azure migrations – off IBM SoftLayer, then into an acquirer's governed tenant. Owns the Terraform, private networking, disaster recovery, and customer-managed encryption, and writes the C# services and the Python for data analysis, modeling, and automation. Builds CI-gated LLM systems in .NET, and the agent tooling the team develops with.

TECHNICAL SKILLS

Cloud & IaC: Infrastructure as Code (IaC) • Terraform (module design, state, drift) • Azure CLI • PowerShell • Bicep / ARM • AWS CDK • Azure PaaS & managed services (VMs, AKS / Azure Kubernetes Service, App Service, Functions, Batch, SQL MI, Cosmos DB, Redis, Service Bus, Storage, Key Vault, Entra ID, Azure Policy)

Architecture: Network and application architecture • Microservices • C4 models • Cloud migration (SoftLayer → Azure; cross-tenant) • Disaster recovery & RTO validation • Queue design (Service Bus, RabbitMQ) • draw.io / Lucidchart

Networking & Security: Private Endpoints & Private DNS (zone linking, conditional forwarding) • Service Endpoints • VNets / NSGs / route tables • Application Gateway • Cloudflare WAF & Workers • Customer-managed keys (CMK) • AD / Kerberos

DevOps, Observability & FinOps: CI/CD • Azure DevOps • GitHub Actions • Docker • Datadog • Azure Monitor (Log Analytics, App Insights) • SonarQube • Veracode • Playwright • Cloud cost modeling

Languages & Data: C# / .NET (Framework → .NET 10) • ASP.NET Web API (REST) • SQL Server / T-SQL / Entity Framework • SSDT / DACPAC • Python (pandas, NumPy, scripting) • TypeScript • React • WPF / WCF

AI / LLM: Azure OpenAI • Semantic Kernel • RAG (chunking → Azure AI Search) • Tool calling • LLM evaluation (rule-based + LLM-as-judge, CI-gated) • NL→SQL with guardrails • AI developer tooling (agents, prompts, hooks) • Claude Code • GitHub Copilot • Codex

PROFESSIONAL EXPERIENCE

THOMSON REUTERS • Austin, TX

May 2023 – Present

Associate Cloud Architect – cloud and application architecture for the tax-automation suite, post-acquisition

- **Platform Migration & IaC – architected the acquired estate's migration into the enterprise's governed tenant**
 - Architected an acquired Azure estate's migration into the enterprise's governed tenant – redesigning the network topology and re-mapping every service to corporate network, access, and resource policy, executed by a cross-org team.
 - Own the Terraform estate (500+ VMs; App Service, Functions, Batch, SQL MI, Cosmos, Redis, Service Bus) – module design, state management, and a tool that renders Terraform plans as readable HTML.
 - Author the IaC knowledge base and onboard engineers who join the estate.
 - Built a golden-image pipeline (bake → verify → sysprep → publish) with a verify-before-capture gate that blocks broken images.
- **Architecture & Disaster Recovery – application architecture, cross-region DR, and priority-queue processing**
 - Built and executed a cross-region failover/failback exercise against a sub-4-hour RTO – ran the storage-account and public-endpoint failover, and fixed a live pipeline defect mid-exercise.
 - Defined the DR architecture per service – replication, geo-redundancy, and replatform decisions.
 - Author the platform's network and application-architecture diagrams and C4 models – the reference teams build against.
 - Designed the platform's priority-processing architecture – three lanes (standard / fast / dedicated) on Azure Service Bus, with per-client routing and KEDA-driven scaling on AKS.
- **Networking, Security & Encryption – private connectivity, customer-managed keys, and the edge**
 - Private Endpoints and Private DNS – zone linking and conditional forwarding.
 - Converted public services to private endpoints; Service Endpoints, firewall rules, and IP allowlisting where they didn't fit.
 - Customer-managed keys (CMK) across disks, blobs, files, and SQL, with per-client isolation and backup/recovery.
 - Managed Cloudflare WAF and CDN for the platform, and built Workers for edge logic (e.g. client-IP injection).
- **Cloud Cost Engineering – forecasting, budgeting, and cost-audit tooling**
 - Built the config-driven Python cost-forecast engine leadership budgets from – date-based rules for service growth, retirement, and migration, with tax-season seasonality built in.
 - Built billing-anomaly auditing over multi-GB daily resource-level usage data, surfacing decommissioning candidates.

- **AI Systems – built an LLM assistant in .NET, and the agent tooling the team develops with**
 - Built an embedded LLM assistant (Semantic Kernel, RAG, SSE-streamed) over a 9-tool document API.
 - Used the parent app’s session (cookie + token exchange) for auth over inbound JWT; hardened it on the enterprise APIM gateway with guardrails, per-user access, and audit logging.
 - Gated the assistant on a 17-case evaluation harness (rule-based + LLM-as-judge) in GitHub Actions that fails the build when quality drops below threshold.
 - Built an AI dev-enablement platform the team adopted – 8 role-specialized agents in coordinated multi-agent pipelines, plus prompts, lifecycle hooks, and 4 AI-powered CI workflows.

SUREPREP LLC • Irvine, CA / Remote

Jun 2016 – Apr 2023

– acquired by Thomson Reuters, 2023

Cloud Application Architect

Feb 2020 – Apr 2023

- **Cloud & Infrastructure – architected and executed the full-estate migration off IBM SoftLayer onto Azure**
 - Replatformed VM-only SoftLayer workloads onto Azure PaaS and managed services – architected and wrote the Terraform, IaC, and network foundation the migration ran on.
 - Moved petabytes of files and blobs over ExpressRoute – robocopy and azcopy across dozens of servers, in two-month transfer windows.
 - Modernized batch processing and tuned autoscaling; capacity-planned the estate for tax-season scale.
 - Built the first Azure and AWS infrastructure (Terraform, CLI, PowerShell) – the base of the IaC estate.
- **Platform & DevSecOps – org-wide build, release, and code-security tooling**
 - Stood up the Azure DevOps platform – Repos, Pipelines, and Artifacts – and the build/release pipelines on it.
 - Introduced code-security and quality gates across the org with SonarQube / SonarCloud and Veracode.
 - Put SQL Server schema under source control (SSDT / DACPAC) and built a cross-environment drift detector.

Senior Software Engineer

Jun 2016 – Feb 2020

- **Software Engineering – full-stack on a client-facing tax product: .NET backend, API, and cloud footprint**
 - Built and maintained the C# / ASP.NET Web API backend – document, questionnaire, letter-generation, and payment services, with SQL Server data-access and DACPAC schema deployments across environments.
 - Root-caused a production concurrency bug under load – thread-unsafe shared state across async requests – and hardened the path with correct async/await handling and Polly retry and circuit breakers.
 - Multi-cloud by design: Azure compute, AWS S3 storage (pre-signed URLs), and Cloudflare + CloudFront at the edge.
 - Integrated Stripe, Twilio, SendGrid, PDFTron, and FileThis (bank-linked document aggregation).

EARLIER EXPERIENCE

WOLTERS KLUWER – CCH Senior Software Engineer • India

May 2012 – Jan 2015

- Built modules across the CCH Xcess professional tax suite in C# / WPF / WCF / SQL Server.
- Diagnosed and eliminated memory leaks with ANTS Memory Profiler; automated version upgrades and client linking.

ACCENTURE Associate Software Engineer • India

Aug 2011 – May 2012

- Built order-entry workflows and UI on the computerized physician order-entry (CPOE) team – a major U.S. cancer center.

SELECTED PERSONAL PROJECTS

Event-Driven Trading Research Platform – 2023 – 2026 • private repos

C# / .NET 10 • MongoDB • RabbitMQ • WebSockets • Refit • Polly • Python (pandas / NumPy / Numba)

- A personal futures-trading system – real-time .NET pipeline (WebSocket → MongoDB → RabbitMQ) into a stateful order engine: a state machine handling partial fills, OCO groups, cancel/replace, timeouts, and recovery.
- Python research engine (pandas / NumPy / Numba, ~70 modules) built to prove strategies wrong – walk-forward validation and realistic modelling of slippage, gaps, and fills.

MoneyJog – personal finance calculator platform – 2026 • moneyjog.com (live)

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

- A live platform of 40+ financial calculators. Pure calculation engines and a 50-state tax engine under golden tests; 344 tests gate every release.

EDUCATION

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

Jan 2015 – May 2016

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

Jul 2007 – Jun 2011