

ANUJ AGRAWAL

Cloud Platform Architect • Azure • Terraform / IaC • FinOps • Applied AI / .NET

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

SUMMARY

Cloud Platform Architect with 15 years in tax, accounting, and financial software, spanning hands-on C#/.NET product engineering and Azure platform architecture. Led two large-scale migrations - IBM SoftLayer to Azure and post-acquisition consolidation into a governed enterprise tenant - and owns Terraform, private networking, disaster recovery, reliability, and cloud cost engineering. Builds production AI systems in .NET, including RAG, tool calling, streaming, and CI-gated LLM evaluation.

TECHNICAL SKILLS

Cloud Platform & IaC: Terraform (modules, state, lifecycle, drift) • Bicep / ARM • AWS CDK • Azure (VMs, Batch, App Service, Functions, SQL MI, Cosmos DB, Redis, Service Bus, Key Vault, Storage, App Gateway, Compute Gallery, Recovery Services Vault) • PowerShell • Azure CLI

Architecture & Reliability: Cloud migration • Disaster recovery / RTO • Private Endpoints & Private DNS • VNets / NSGs • Customer-managed keys • Backup / recovery • Datadog / Azure Monitor • FinOps / cost modeling • C4 architecture

AI / LLM: Semantic Kernel • Azure OpenAI • RAG / Azure AI Search • Tool / function calling • SSE streaming • LLM evaluation (rule-based + LLM-as-judge) • AI agents / prompts / hooks • NL-to-SQL

Software & Delivery: C# / .NET 8/9 • ASP.NET Web API • Entity Framework • Python (pandas, DuckDB) • SQL Server / T-SQL • TypeScript / React • Azure DevOps • GitHub Actions • Docker • Playwright • SonarQube • Veracode

PROFESSIONAL EXPERIENCE

THOMSON REUTERS • Austin, TX

May 2023 - Present

Associate Cloud Architect - *Azure platform and application architecture for an acquired tax-automation portfolio*

- **Cloud Migration:** Architected the post-acquisition migration of an Azure application estate into the enterprise's governed tenant; redesigned Terraform, networking, identity, and service access to meet corporate controls for a delivery effort spanning 50+ people.
- **Terraform & Platform:** Own IaC across VMs, Batch, App Service, Functions, SQL MI, Cosmos DB, and Redis; design reusable modules, manage state/lifecycle/drift, and ship production changes through branch-protected PRs.
- **Platform Enablement:** Authored the IaC knowledge base and led repeat KT sessions; moved decommissioning into Terraform so dependencies are resolved predictably instead of through manual portal deletion.
- **Golden Image Automation:** Engineered a nine-stage PowerShell/Azure CLI pipeline for Azure Batch that builds from the latest Windows base image, verifies every baked component, publishes to Compute Gallery, replicates regionally, and blocks failed images from release.
- **Disaster Recovery:** Led a cross-region failover/failback POC against a sub-4-hour RTO; coordinated the change freeze, validated core workflows, corrected a live runner-label defect mid-exercise, and authored DR network and service-replication decisions.
- **FinOps & Forecasting:** Built a config-driven Python engine from a ~150,000-row amortized-cost export, preserving per-workload seasonality while modeling growth, DR, and replatforming scenarios for a two-year budget forecast.
- **Cost Validation:** Found three defects inflating the initial forecast ~2.5x and proved the correction against hand-computed ground truth; a DuckDB audit of multi-GB daily cost data surfaced a six-figure annual decommissioning opportunity.
- **Applied AI:** Built a production .NET 8 / Semantic Kernel document assistant with nine tools, SSE streaming, RAG indexing, access controls, cookie-session/token exchange, rate limits, vendor-neutral tracing, Docker, and GitHub Actions.
- **AI Quality & Enablement:** Created a 17-case CI gate combining rule-based scoring with LLM-as-judge, then shipped repository tooling with 8 agents, 13 prompts, 7 safety/lifecycle hooks, and 4 AI-powered CI workflows.
- **Production Safety:** For an edge-routing audit using a production-capable token, wrote a PowerShell scanner that parses its own AST to prove every network call is GET before execution; delivered the inventory plus C4 and infrastructure diagrams.

Senior Software Engineer to Cloud Application Architect - progressed from product engineering to cloud architecture; acquired by Thomson Reuters

- **Cloud Migration:** Architected and executed the 2021-22 move from IBM SoftLayer to Azure, transferring petabyte-scale files and blobs over ExpressRoute across dozens of servers within two-month windows and replatforming VM-only workloads onto managed services.
- **Azure Foundation:** Built the initial Azure and AWS infrastructure with Terraform, PowerShell, and CLI; designed network and PaaS patterns and planned capacity at ~4,000 cores for Batch modernization with zone-redundant autoscaling.
- **.NET Product Engineering:** Owned the C# / ASP.NET Web API backend and production footprint for a client-facing tax platform, delivering document storage, questionnaire search, letter generation, payment, notification, and third-party integrations.
- **Security & Reliability:** Fixed a missing per-user authorization check and a production race caused by shared HttpClient header mutation; moved to per-request messages and added Polly retry/circuit-breaker policies.
- **Data & Multi-Cloud:** Authored SQL Server stored procedures and data-access layers, placed schema under source control with SSDT/DACPAC, and integrated Azure compute with AWS S3 storage and pre-signed URL delivery.
- **DevSecOps & Automation:** Rolled out SonarQube/SonarCloud, Veracode, and JFrog across ~40 engineers; standardized Playwright after a four-framework evaluation and built a Jira-Zendesk sync plus schema-drift tooling.
- **Edge & Integrations:** Migrated CDN, DNS, and SSL to Cloudflare enterprise zones with CloudFront/ACM for the consumer front end; delivered Box, FileThis, PDFTron, Stripe, Twilio, and SendGrid integrations.

EARLIER EXPERIENCE

WOLTERS KLUWER - CCH Senior Software Engineer • India

May 2012 - Jan 2015

- Built CCH Axxess tax and accounting modules in C#, WPF, WCF, and SQL Server; eliminated memory leaks with ANTS Memory Profiler and automated version upgrades and client linking.

ACCENTURE Associate Software Engineer • India

Aug 2011 - May 2012

- Delivered a physician order-entry system for a major U.S. cancer center using C#, WPF, WCF, and SQL Server.

SELECTED PERSONAL PROJECTS

Event-Driven Trading Research Platform • 2023 - 2026 • private repositories

C# / .NET 9 • MongoDB • RabbitMQ • WebSockets • Refit • Polly • Python • NumPy / Numba

- Built a restart-safe .NET 9 event pipeline from OAuth market-data WebSockets through MongoDB and RabbitMQ; modeled order execution as a state machine covering partial fills, OCO, cancel/replace, and timeouts.
- Developed a Python/NumPy/Numba research engine with ~70 strategy modules, walk-forward validation, and conservative slippage, gap, and adverse-first intrabar models designed to falsify strategies.

MoneyJog - privacy-first personal finance platform • 2026 • moneyjog.com (live)

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

- Shipped 43 calculators in a ~34K-line TypeScript monorepo, including TVM, Monte Carlo, mortgage, and 50-state tax engines under 344 release-gating tests.

EDUCATION

M.S., Computer Science • Clemson University, USA (2015 - 2016) | **B.E., Electronics Engineering** • Nagpur University, India (2007 - 2011)