

Gautam Kumar

Lead Engineer | Full Stack Engineer | .NET & Azure Cloud Expert

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Professional Summary

Highly accomplished Staff Engineer and Technical Architect with over 16 years of experience designing enterprise-grade cloud systems, event-driven microservices, and distributed architectures. End-to-end delivery ownership, deeply specialized in the .NET ecosystem and Microsoft Azure, with a recent strategic focus on integrating frontier AI/ML solutions (RAG, Vector Databases, MCP Servers) into production environments. Proven track record of leading cross-functional engineering teams to deliver secure, highly available applications for the global financial and retail sectors.

Core Architectural Competencies

- **Enterprise Architecture:** Microservices, Micro-Frontends, Event-Driven Systems, Clean Architecture, Domain-Driven Design (DDD), SOLID Principles.
- **Cloud & DevOps (Azure):** Azure Serverless Functions, Logic Apps, Redis, Azure Batch Application, Azure Storage Service (Queue/Blob/table), Azure Service Bus, Azure Application Insights (Observability), Azure AD B2C, CI/CD Pipelines (Azure DevOps, GitHub Actions), High Availability, Disaster Recovery, Backup Policy, Intune, Entra ID, Groups, Application Registration, Alert Rule, Access Control(IAM), Manage Resource Group & Managed Identity....
- **AI & Machine Learning:** RAG Architectures, Vector Databases (Cosmos DB), Model Context Protocol (MCP) integrations, Azure AI Document Intelligence, Local AI Agents.
- **.NET Ecosystem & Data:** .NET Core, C#, Entity Framework Core, ASP.NET MVC, RESTful Web APIs, Entity Framework, SQL Server (Performance Tuning), Cosmos DB, Oracle.

Professional Experience

Independent Cloud & AI Architect

Self-Employed / Project Development | April 2026 – Present

- Programed and deployed a Model Context Protocol (MCP) server using .NET Core and Stdio transport, enabling external LLM clients to securely interface with local custom tools.
- Developed and deployed Sello and Pratap Travels website and end to end payment workflow.
- Developed a full stack, AI-driven application using React/Angular and .NET Core, architecting end-to-end Retrieval Augmented Generation (RAG) pipelines to query vector databases Implemented stateful session management via Azure AI Foundry, enabling context aware, long-term memory for user interactions.
- Developing AI Agent in Microsoft AI Agent Framework to solve real life problems.

Senior Software Engineer / Staff Engineer (**Leadership**)

Compagnie d'Investissements et de Gestion Privée, Hong Kong | Aug 2021 - Mar 2026

- Defined the end-to-end technical architecture for enterprise financial applications, migrating legacy monoliths to Microservices and Micro-Frontends, which improved system maintainability and deployment frequency by **35%**.
- Engineered secure, high-availability RESTful APIs integrated with OAuth and Azure AD B2C, successfully authenticating **1,000+** daily transactions between external CRM, Order Flow, and third-party banking systems.
- Architected scalable, cloud-native distributed ecosystems on Microsoft Azure using Serverless Functions and Logic Apps, reducing overall infrastructure costs by **20%** while maintaining 99.9% uptime.
- Implemented Azure Document Intelligence to build AI models for parsing structured data from diverse financial documents, reducing manual data entry time by **15 hours** per week.
- Mentored a cross-functional engineering team of **6** developers, overseeing sprint planning, CI/CD pipeline automation (Azure DevOps), and ensuring strict alignment with enterprise security compliance.
- **Order Flow** (Full Stack Developer / Lead): Led a 3-member team to build a **C#** and **React**, trade-order management web app for the Front Office. The platform automates trade preparation, multi-tier approvals, pre-trade checks, and broker execution while reconciling files via Azure Document Intelligence.
- **Azure AI Document Intelligence** (Full Stack Developer / Lead): Designed a cloud-native Python and Azure automation pipeline using custom-trained AI models to extract structured data from diverse financial documents. The system seamlessly integrates

parsed data, such as trade confirmations and KYC documents, into downstream APIs for real-time processing.

- **CRM System** (Full Stack Developer / Lead): Architected a high-availability **C#** and **Angular** CRM for banking staff to manage client onboarding, mandates, and granular access controls. Leveraged Cosmos Graph DB for relationship visualization, implemented multi-channel notifications, and integrated third-party APIs.
- **Banks Data Feed** (Full Stack Developer / Lead): Developed an automated data ingestion workflow utilizing **Azure Functions, Logic Apps, and Python**. The system securely retrieves daily banking files via SFTP, parses them into internal formats, and automatically routes the data to target applications via REST APIs.
- **CIGP ChatGPT** (Project Lead): Built and deployed a secure, real-time conversational AI application using Angular and .NET Core. Hosted on Azure, the tool integrates OpenAI's GPT models via secure APIs authenticated with Microsoft Entra ID.
- **E-Platform** (Full Stack Developer): Engineered a secure client portal for on-demand portfolio, transaction, and statement access using **C#** and **Angular**. Implemented Azure AD B2C for authentication and utilized browser-cached encrypted session keys to ensure fast, secure data delivery.

Sr. Developer / Technical Lead (**Leadership**)

Nityo Infotech Services Ltd. (A.S. Watson Group, Hong Kong) | Jan 2017 - Aug 2021

- Designed resilient, event-driven distributed systems for retail and supply chain operations, optimizing database architectures to process over **8 million** warehouse records with near-zero latency.
- Led the integration of Oracle databases and third-party global platforms via REST Web APIs and messaging queues, establishing real-time data interchange across **4** international warehouse locations.
- Standardized reusable software frameworks and architected new labor management dashboards, accelerating the development lifecycle for cross-functional teams by **20%**.
- Managed infrastructure upgrades and enterprise disaster recovery planning, successfully rolling out MS Teams Operator Connect for **80+** enterprise users.

Sr. Developer

Espire Info labs, India | Aug 2012 – Dec 2016

- Insurance domain project for UK Client, contributed on claim module and some third party application integration.

Sr. Software Engineer / Team Lead (Leadership)

Barcode India Ltd., India | Aug 2012 - Aug 2016

- Architected enterprise-grade logistics systems, designing high-availability socket server architectures capable of processing 100+ concurrent client requests per second.
- Led a development team of **3** engineers through the complete software lifecycle, enforcing C# and ASP.NET design patterns that reduced post-deployment bugs by **40%**.
- Executed advanced SQL Server database tasks, including query optimization and replication, significantly improving system resilience and data retrieval speeds.

Software Engineer

Digital Info Solutions Pvt Ltd., India | Jan 2010 - Aug 2012

- Developed scalable payroll, HR, and billing applications using C#, ASP.NET, and SQL Server for medium-sized enterprises.
- Integrated biometric attendance hardware with automated backend processing, eliminating manual HR data reconciliation.

Education & Certifications

- **Certifications:** Microsoft Certified Professional (MCP), MCTS (.NET)
- **Degree:** Bachelor of Science in Information Technology (B.Sc IT) - Kuvempu University (2010)
- **Diploma:** Advanced Diploma in Information Technology