

KETAN AGNIHOTRI - SENIOR FULLSTACK ENGINEER | EX-MICROSOFT | Dubai, UAE

AI-DRIVEN FULL STACK & CLOUD ARCHITECT | .NET CORE | REACT | AZURE | DEVOPS | 13+ YRS

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PROFILE SUMMARY

Senior Full Stack & Cloud Engineer (ex-Microsoft) with 13+ years experience designing scalable, cloud-native enterprise systems on Azure. Proven track record in modern React applications, .NET microservices, Azure cloud architecture, and integrating AI services (Cognitive Services, OpenAI) into production platforms. Expert in **DevSecOps** practices, performance optimization, and leading distributed teams.

TECHNICAL SKILLS

- **AI & Cloud:** Azure OpenAI Service, Cognitive Services, Azure Functions, Azure Active Directory, Cosmos DB, Cognitive Search, Azure IoT Hub, Data Factory, AKS, Serverless Architecture, Application insights
- **Backend:** .NET 8, C#, ASP.NET Core, Entity Framework (EF), LINQ, Microservices, CQRS, Event-Driven Systems, REST APIs, OData, RabbitMQ, Azure Service Bus
- **Frontend:** React.js, React Native, Next.js, TypeScript, JavaScript, Redux, SignalR, Fluent UI, React Admin, Micro-frontends (Single-spa.js), Responsive Design, Custom Component Libraries, React Server Components (CSR/SSR), HTML, CSS, Figma, SASS
- **DevOps & Infra:** Azure DevOps, Docker, Kubernetes (AKS), Terraform (IaC), YAML, CI/CD Pipeline Configuration, Git, SonarQube, Visual Studio, VS Code, ESLint, GitHub Copilot
- **Security & Observability:** Azure AD, OAuth2, OWASP, Azure Advisor, Identity & Access Management, Application Insights, Log Analytics, KQL, Grafana, Kibana, MSAL
- **Data & Analytics:** SQL Server, NoSQL (Cosmos DB), Data Factory, Power BI, Grafana, Kibana
- **Patterns & Practices:** Microservices, Clean Architecture, TDD, OOP, HLD/LLD, Agile & Scrum

EXPERIENCE

1. National Air cargo, UAE - Fullstack Software Engineer

July 2025 -

Present

Logix - A Logistics product

- Developed React/TypeScript front-end for shipment management, quoting, and tracking dashboards serving 500+ daily active internal org users.
- Built .NET REST APIs for routing, scheduling, and billing workflows handling multiple transactions daily.
- Leveraged GitHub Copilot to accelerate feature development, improving code quality and reducing repetitive coding tasks.
- Integrated Azure Application Insights for real-time monitoring, performance tracking, and error diagnostics with custom alerting.
- Implemented Azure Functions serverless architecture for background processing.
- Secured application using Azure Active Directory for authentication and role-based access control across multiple user roles.
- Implemented comprehensive unit & end-to-end tests using Playwright achieving code coverage.
- Deployed containerized services to Azure Kubernetes Service (AKS) for scalability and resilience with auto-scaling capabilities.
- Collaborated in Agile/Scrum teams for requirement analysis, design, and delivery with 2-week sprint.

2. Microsoft, India - Software Development Engineer 2

Jan 2018 - July 2025 (7+ Years)

Recent Projects:

Resource Staffing

- Designed and built micro-frontend-based dynamic **React components** with TypeScript and Fluent UI.

- Designed high-performance REST APIs for enhanced reliability and implemented end-to-end automation testing with Playwright.
- Integrated **IRIS Copilot** into staffing platforms for support ticket creation
- Configured CI/CD pipelines with **template based YAML**, streamlining deployment processes.
- Facilitated agile ceremonies as Scrum Master, driving team productivity.
- Implemented end-to-end **observability** using Azure Application Insights, Log Analytics, and KQL to diagnose performance bottlenecks and detect anomalies in production.
- Created custom dashboards and proactive alerting for dependency failures, latency, and telemetry-driven insights across distributed systems.
- Acted as a **Security & Azure Advisor**, ensuring compliance with OWASP, Azure AD baselines, and best practices for identity, access, and data protection across enterprise solutions.

MediaCom System

- Developed a **Marketing Planning Solution** with modules for Opportunities, Audit Planner, and Solution Management.
- Built reusable React components and integrated Azure Cognitive Services for data insights and Azure Cognitive Search for intelligent document retrieval.
- Stored and queried large-scale marketing data in Azure Cosmos DB; streamlined workflows with **OData**.
- Secured application using Azure Active Directory SSO.

Egyptian Tax Authority (ETA)

- Designed a B2B/B2C **taxation platform** with React, TypeScript, Single-spa.js, .NET Core.
- Implemented serverless modules with Azure Functions, event-driven architecture with CQRS, and Azure Service Bus for asynchronous processing.
- Leveraged globally distributed Cosmos DB for low-latency storage.
- Enabled auto-scaling via Docker + AKS; monitored performance with Grafana, Kibana, and Azure Application Insights.
- Delivered **React Native mobile app** with i18n multilingual support and secure authentication via Azure AD B2C.

TK Elevator (TKE)

- Built **IoT microservices** for 1000+ **connected elevators** using Azure IoT Hub, Functions, Service Bus, and Cosmos DB for telemetry.
- Integrated Azure Cognitive Services for anomaly detection and predictive maintenance.
- Developed interactive dashboards with React/Fluent UI; streamlined analytics with Azure Data Factory.
- Deployed containerized services on AKS with auto-scaling; implemented monitoring via Azure Application Insights.

European Commission (EC)

- Developed **text-to-speech AI solution** with React, Azure Cognitive Services (Speech API), and Azure Functions.
- Applied CQRS and event-driven design; secured app with Azure AD and role-based authorization.
- Integrated Azure Cognitive Search for document indexing; stored processed documents in Cosmos DB.
- Monitored performance and user interactions with Application Insights; practiced TDD for high code quality.

3. Deloitte USI - Technology Consultant

Mar 2017 - Dec 2017

- Contributed to the **Health Benefit Exchange** project for Kentucky's ObamaCare system. Optimized system performance and reliability through backend enhancements.

4. Tavisca - Senior Software Engineer

Aug 2015 - Feb 2017

- **Kenobi**: Built travel booking solutions allowing (banking) customers to redeem reward points

5. Saviant Consulting - Azure Developer

May 2014 - July 2015

- **DSA OLA:** Built real estate applications enabling online land viewing and booking.

6. Early Career Experience

Innovatus, Execula, Persistent - Software Engineer & Intern

July 2011 -

Apr 2014

- **Web Applications :** web app development using .net, SQL, javascript, jQuery, html, css

CERTIFICATION - [VERIFY](#) / [MICROSOFT LEARN](#)

- **Azure**
 - Azure AI Engineer Associate - Microsoft
 - AZ-203: Developing Solutions for Microsoft Azure
 - AZ-500: Microsoft Azure Security Technologies
 - MCSE & MCT: Cloud Platform and Infrastructure
 - SC-900: Security, Compliance, and Identity Fundamentals
- **Others**
 - AZ-400: Designing and Implementing Microsoft DevOps Solutions
 - Worldwide Communities - Community SME 2020
 - 70-486: Developing ASP.NET MVC Web applications
 - 70-483 & 70-480: Programming in C#

KEY AWARDS & ACHIEVEMENTS

- Global Hackathon 2023 [Winner](#) – “Green Genius”: Built an IoT + AI-powered smart waste management
- SPL & Emerging Star Awards – Microsoft (April 2021 & FY 2018)
- Speaker at [Geekle React Festival](#), sharing insights on scalable Micro-frontend architectures.
- **Authored books:** [React Development using TypeScript](#) & [serverless computing using Azure Function](#)
- Delivered full-stack solutions across diverse domains — Automobile, Real Estate, Travel, Government Taxation, and Media — on Azure and AWS platforms.
- Active mentor and global developer community contributor
- Optimized cloud consumption, achieving significant cost savings for multiple organizations.

EDUCATION

Bachelor of Engineering in Information Technology (B.E.IT), Pune University (2008–2012)

Aggregate: 63.3%