

KETAN AGNIHOTRI - SDE 2 @ MICROSOFT

SENIOR FULL STACK ENGINEER - .NET CORE REACT.JS | DEVOPS | 12.7+ YEARS

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SUMMARY

Senior Full Stack Engineer with 12.7+ years of experience in architecting and delivering high-performance, secure web applications using .NET Core, React.js, and Azure. Proven track record of optimizing cloud consumption, driving innovation, and leading cross-functional teams. Passionate about continuous learning, mentoring, and building scalable solutions that deliver business impact.

TECHNICAL SKILLS

- **Languages & Frameworks:** C#, .NET Core, JavaScript, TypeScript, **React.js**, React Native, Redux, SignalR, jQuery, HTML, CSS, **Microservices**
- **Cloud & Serverless:** Azure (Azure Functions, Azure Active Directory, IoT Hub, Data Factory, AKS), AWS (Lambda), Serverless Architecture
- **Databases:** SQL Server, Entity Framework (EF), LINQ, NoSQL (Cosmos DB), Data Analytics (PowerBI, Grafana, Kibana)
- **DevOps & CI/CD:** Azure DevOps, Docker, Kubernetes (AKS), YAML, Terraform (IaC), CI/CD Pipeline Configuration
- **Design Patterns & Practices:** Microservices, CQRS, Event-Driven Architecture, TDD, OOP, HLD, LLD, Agile, Scrum, OWASP Security
- **API & Integration:** REST APIs, OData, RabbitMQ, Azure Service Bus, **Micro-frontends** (Single-spa.js)
- **UI/UX:** Fluent UI, React Admin, Figma, Custom Component Libraries, Responsive Design
- **Tools:** Git, SonarQube, Visual Studio, VS Code, ESLint, GitHub *Copilot*

EXPERIENCE

Microsoft - Software Development Engineer 2

[7+ Years] Jan 2018 - present

Recent Projects:

- **Resource Staffing:**
 - Designed and developed micro-frontend-based dynamic **React components** with TypeScript and Fluent UI.
 - Engineered high-performance REST APIs for improved reliability. End to end automation testing using playwright
 - Configured CI/CD pipelines with **template based YAML**, streamlining deployment processes.
 - Implemented security compliance measures following OWASP standards.
 - Facilitated agile ceremonies as Scrum Master, driving team productivity.
- **MediaCom System:**
 - Spearheaded development of a Marketing Planning Solution with modules for Opportunities, Audit Planner, and Solution Management.
 - Created reusable UI components and implemented **AI-driven insights** for tailored marketing strategies.
 - Secured application using Azure Active Directory and streamlined data workflows with **OData**.
 - Practiced TDD for high code quality and efficiency.
- **Egyptian Tax Authority (ETA):**
 - Developed a comprehensive **taxation platform for B2B and B2C** users with React, Typescript, Single-spa.js, and .NET Core.
 - Designed Azure Functions-based serverless modules and employed **CQRS** for scalability and maintainability.
 - Streamlined deployments with Docker, AKS, and ensured secure coding practices with **OWASP** guidelines.
 - Implemented real-time monitoring using Grafana and Kibana for actionable insights.
 - Delivered a React Native mobile app with key functionality and secured data workflows via Azure Active Directory.
- **TK Elevator (TKE):**
 - Developed **IoT-based** microservices to monitor and manage elevator systems in real time.

- Leveraged Azure IoT Hub, Functions, and Service Bus for efficient device communication and data processing.
- Designed and implemented dashboards using React and Fluent UI for data visualization.
- Streamlined data pipelines with Azure Data Factory for seamless analytics.
- Enhanced system reliability and scalability by integrating containerized services with Kubernetes (AKS).
- Practiced secure coding practices, ensuring compliance with OWASP standards.
- **European Commission (EC):**
 - Developed a scalable **text-to-speech** solution using React, **Azure Cognitive Services**, and Azure Functions.
 - Implemented **CQRS** pattern for efficient separation of concerns.
 - Secured the application with Azure Active Directory authentication.
 - Achieved 90% code coverage through rigorous TDD practices.

Deloitte USI - Technology Consultant 2017

Mar 2017 - Dec

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

Tavisca - Senior Software Engineer

Aug 2015 - Feb 2017

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

Saviant Consulting - Azure Developer

May 2014 - July 2015

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

Other Innovatus, Execula, Persistent - Software Engineer & Intern

July 2011 - Apr 2014

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

CERTIFICATION - *VERIFY*

- **Azure**
 - AZ-203: Developing Solutions for Microsoft Azure
 - AZ-500: Microsoft Azure Security Technologies
 - Azure AI Engineer Associate - Microsoft
 - MCSE & MCT: Cloud Platform and Infrastructure
- **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 ACHIEVEMENTS & AWARDS

- **Authored books:** [React Development using TypeScript](#) and [serverless computing using Azure Function](#)
- **Multiple awards** at Microsoft: SPL Award (April 2021) and Emerging Star (FY 2018).
- Worked on **multiple industry** domains like automobile, real estate, Travel, Government taxation, Media, Worked as a full-stack engineer, **multiple cloud** services like Azure, AWS.
- **Won Microsoft Global Hackathon "Green Genius"** for smart waste management.
- Optimized cloud consumption, saving significant costs for organizations.
- **Speaker** at [Geekle React Festival](#) and active mentor for junior developers.

EDUCATION

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

Aggregate: 63.3%