

# KETAN AGNIHOTRI - SDE 2 @ MICROSOFT

SENIOR FULL STACK ENGINEER - .NET CORE REACT.JS | DEVOPS | 12.5+ YEARS

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## SUMMARY

I am a team-oriented senior **full stack engineer** with expertise in front-end and back-end development. I architect, design, develop, and deploy scalable, high-performance, and secure web applications using cutting-edge technologies like .NET Core, React.js, and Azure. I consistently deliver quality code, optimize cloud consumption, and drive innovation. Eager to expand my skill set to grow professionally and demonstrate success in leadership and organizational development. I am passionate about continuous learning, helping others grow, and seeking opportunities for collaboration and growth.

## TECHNICAL SKILLS

**Technical Expertise:** C# .Net core, **React.js**, **JavaScript**, Azure, OOP, Rest API, SQL, EF, Linq, Redux, **Micro-frontend**

**Other Skills:** MVC, **Typescript**, HTML, CSS, **Micro-services**, signalR, NoSql, React Native, JQuery, Code Quality, Performance improvement, System Design - **HLD, LLD**, Data Structures & Algorithms, Problem solving, CQRS. **IOT** applications using Azure IOT Hub, Azure Data Factory

**Methodology:** Cloud - **Design Patterns**, Agile, Cloud Migration & modernization, TDD, OWASP, Azure Functions

**Tools:** Git, Visual Studio, VS Code, ESLint, RabbitMQ, PowerBI, **Azure DevOps**, SonarQube, **CI-CD**, Containerization

## EXPERIENCE

Microsoft - SDE 2: Azure, react.js, .Net core *[7+ Years]* Jan 2018 - present

- **Resource Staffing:** A resource staffing product built using react.js, micro-frontend, Azure, YAML, AKS, Docker, REST APIs and end to end testing using playwright
- **MediaCom System:** A Sale & Marketing web app built using react.js, micro-frontend, YAML, Docker, Kubernetes, and REST APIs
- **Egyptian Tax Authority (ETA):** B2C, B2B Web+Mobile on-premise app for citizen's taxation work built using react.js, REST API, RabbitMQ, Docker, Kubernetes, SRE, OWASP.
- **TK Elevator(TKE):** IOT based microservices using Azure,Functions, ADF, IoT Hub, Service bus queue.
- **European Commission (EC):** Text to speech web application built using Azure cognitive services, react.js

Deloitte USI - Technology Consultant

Mar 2017 - Dec 2017

- **Health Benefit Exchange:** Obama Health care project for state of Kentucky

Tavisca - Senior Software Engineer

Aug 2015 - Feb 2017

- **Kenobi:** Travel Products for banks to help customers redeem points to book hotels, flights, and cars

Saviant Consulting - Azure Developer

May 2014 - July 2015

- **DSA OLA:** Real estate product to help users view/book pieces of land online.

Other Innovatus, Execula, Persistent - Software Engineer & Intern

July 2011 - Apr 2014

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

## RECENT PROJECTS

- **Resource Staffing Product**

**Tools & Technologies :** React, Typescript, Fluent UI, micro-frontends, redux, Azure Functions, REST APIs, Security Compliance, TDD, YAML CICD, AngularJS

**Roles & Responsibilities:**

1. Developed dynamic frontend components using React, TypeScript, and Fluent UI to adopt micro-frontend architecture
  2. Engineered RESTful APIs for high performance and reliability.
  3. End to end testing using playwright
  4. Configured CI/CD pipelines with YAML using org level templates (OneBranch migration)
  5. Resolved performance bottlenecks and engaged with stakeholders.
  6. Handled security compliance items and acted as DRI.
  7. Served as Scrum Master, facilitating standup, sprint demos
- **Text to speech project for public sector**

**Tools & Technologies :** React, Typescript, Fluent UI, Single-spa.js for micro-frontends, redux, Azure Cognitive services, REST APIs, Azure Active Directory, Azure Functions, CQRS, TDD, Terraform, IaC

**Roles & Responsibilities:**

8. Developed full-stack Text-to-Speech project for the public sector using React, Typescript, and Fluent UI.
9. Implemented micro-frontends with **Single-spa.js** for modularity and scalability.
10. Integrated Azure Cognitive Services for high-quality text-to-speech functionality.
11. Utilized Redux for efficient state management and consistent user interactions.
12. Secured the application with Azure Active Directory for authenticated access.
13. Built optimized serverless functions using Azure **Functions**.
14. Employed **CQRS** pattern for separation of read and write operations.
15. Practiced Test-Driven Development (**TDD**) for a reliable codebase and achieving 90% code coverage.
16. Contributed to **agile** ceremonies and code reviews for teamwork.

● **Sales & Marketing Planning Solution**

**Tools & Technologies:** React, Typescript, Single-spa.js, Redux, Azure Active Directory, Azure Functions, TDD, OData, React Admin.

**Roles & Responsibilities:**

1. Led development of Marketing Planning Solution with 4 steps: Opportunities, Audit Planner, Solution, and more.
2. Created **custom component library** and design system.
3. Utilized JavaScript and React testing frameworks for robust testing.
4. Integrated AI algorithms to provide **marketing intelligence based on historical data**.
5. Generated monthly reports, gender-wise insights, and location-based analyses.
6. Collaborated with stakeholders for tailored marketing planning solutions.
7. Secured application with Azure Active Directory for authorized access.
8. Developed serverless functions with Azure Functions for optimal performance.
9. Practiced Test-Driven Development (**TDD**) for reliable codebase.
10. Integrated **OData** and React Admin for efficient data management.

● **B2B & B2C Taxation system for public sector**

**Tools & Technologies:** React, Typescript, Single-spa.js, Azure DevOps, RabbitMQ, .Net Core, Redux, OWASP, Azure Active Directory, Azure Functions, CQRS, TDD, OData, Docker, AKS, Sonarqube, Grafana, Kibana.

**Roles & Responsibilities:**

1. Led end-to-end development of B2B & B2C Taxation System for the public sector.
2. Utilized React, Typescript, and **Single-spa.js** for a scalable and modern frontend.
3. Built a robust .NET Core backend to handle data processing and transactions.
4. Implemented Redux for streamlined state management and enhanced user interactions.
5. Developed serverless functions with Azure Functions for high-performance modules.
6. Employed **CQRS** pattern for improved maintainability and scalability.
7. Practiced Test-Driven Development (**TDD**) for a reliable codebase.
8. Orchestrated Docker and AKS for containerized deployments and scalable infrastructure.
9. Ensure code quality and security with Sonarqube's rigorous code analysis.
10. Utilized **Grafana** and Kibana for real-time monitoring and data visualization.
11. Worked on application security following **OWASP** guidelines, enhancing system protection.
12. Implemented **on-premise** deployment to meet specific security and data privacy requirements.
13. Developed a **mobile app** with limited functionality using **React Native**.

**CERTIFICATION - VERIFY**

- AZ-203: Developing Solutions for Microsoft Azure
- AZ-400: Designing and Implementing Microsoft DevOps Solutions
- MCSE & MCT: Cloud Platform and Infrastructure
- Worldwide Communities - Community SME 2020
- AZ-500: Microsoft Azure Security Technologies
- 70-486: Developing ASP.NET MVC Web applications
- Azure AI Engineer Associate - Microsoft

- 70-483 & 70-480: Programming in C#

### **KEY ACHIEVEMENTS & AWARDS**

- 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 internal global hackathon** "Green Genius" for smart waste management.
- Helped organization optimize cloud consumption
- **Author** of a book on **serverless** computing using Azure Function.
- **Awards:** 1. SPL Award – April 2021, Microsoft ACAI | 2. Emerging Star – FY 2018, Microsoft EAS
- **Speaker** @ [geekle](#) react festival and mentoring juniors and actively taking trainings

### **EDUCATION**

Aggregate percentage 63.3%, Bachelor of Engineering, Information Technology - **BEIT**, Pune University [2008-2012]