ADITYA ROY

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SUMMARY

Full Stack .NET Developer with **2+ years of experience** building and delivering **scalable enterprise web applications and RESTful APIs** using C#, ASP.NET Core, .NET 6/8/10, and Microsoft Azure. Proficient in **event-driven microservices**, distributed systems, **SQL Server optimization**, and front-end development with React and Next.js. Strong foundation in SOLID principles, design patterns, clean code, unit testing practices, and CI/CD automation. Experienced in Agile delivery, cross-functional collaboration, and building secure, high-performance applications. Actively uses AI-assisted development tools to accelerate delivery.

EXPERIENCE

PwC India
Full Stack .NET Developer

Sep 2024 – Present
Gurugram, Haryana

- Developed and maintained **enterprise web applications and RESTful APIs** using C# and ASP.NET Core (.NET 6/8/10), resulting in a **15% reduction in server costs** and 100ms improvement in response times for end-users.
- Wrote **clean, maintainable, and well-tested code** following SOLID principles and design patterns (Repository, Factory, Strategy). Structured services with Dependency Injection, increasing unit test coverage by ~25%.
- Built **modern web applications** with deep understanding of APIs, routing, data storage, design patterns, optimization, caching, and security across consumer and enterprise platforms.
- Architected **event-driven microservices** using Azure Functions, Service Bus, and Queues for asynchronous communication, improving throughput by ~40% and enabling reliable processing of high-volume distributed workloads.
- Implemented **claim-based authentication (JWT)** and role-based/policy-based authorization using Microsoft Entra ID, securing 3+ role types. Hardened APIs with CORS, security headers, and rate limiting, reducing abuse-related errors by ~20%.
- Developed and optimized **SQL Server stored procedures, queries, and indexes** for data-heavy APIs, reducing query execution time. Experienced with relational databases and NoSQL databases including MongoDB.
- Automated build and release workflows with **Azure DevOps CI/CD pipelines**, managing environment configuration across dev/staging/production, reducing deployment effort by ~40%.
- Debugged, troubleshot, and resolved issues in **development and production environments** using logging, monitoring, and distributed tracing, improving system observability and reducing mean-time-to-resolution.
- Collaborated in **Agile/Scrum ceremonies** including sprint planning, daily standups, retrospectives, and backlog grooming. Conducted peer code reviews and worked closely with product managers and UI/UX teams.
- Designed and built **RESTful API integrations** and reusable integration workflows enabling data exchange between internal services, partner systems, and third-party platforms.

PROJECTS

Broadcast Messaging Tool | *ASP.NET Core, Azure Functions, Service Bus, SQL Server, Kendo UI, Entra ID* **Nov 2025 – Present**

Engineered an enterprise broadcast messaging platform supporting **50,000+ users** with a **99.98% delivery success rate** and secure communication workflows. (PwC Internal)

- Contributed to architecture and scaling decisions for high-volume messaging workflows supporting thousands of daily notifications across distributed services.
- Integrated authentication and authorization using Microsoft Entra ID with role-based access control for Admin, IT Admin, and User roles.
- Engineered Azure Function–based messaging services with queue and timer triggers, processing thousands of notifications daily with retry strategies.
- Implemented monitoring dashboards and automated retry strategies for background jobs, improving system observability and resilience in distributed workflows.
- Integrated messaging workflows with internal services and data pipelines, demonstrating **integration-driven system design** and improving delivery reliability for large-scale campaign workflows.

ResuMind – AI Resume Analyzer | *React, TypeScript, Next.js, Tailwind CSS, Claude Sonnet AI* **Jul 2025 – Aug 2025**

Serverless AI-powered resume analysis tool. *github.com/workwithadityaroy/ai-resume-analyzer*

- Built a modern, production-grade web application using React, TypeScript, and Next.js with serverless architecture, improving alignment efficiency by ~40%.
- Integrated external AI APIs and built asynchronous processing workflows for document analysis, demonstrating clean client-server architecture and API design.
- Refined user experience with drag-and-drop uploads and responsive design, reducing interaction steps by ~30%.

TECHNICAL SKILLS

Languages: C#, JavaScript, TypeScript, SQL, HTML, CSS
Backend: ASP.NET Core, .NET 6/8/10, REST APIs, Web API, Entity Framework, Dapper ORM
Frontend: React.js, Next.js, jQuery, Bootstrap, Tailwind CSS, Kendo UI, ShadCN UI
Databases: SQL Server (Queries, Joins, Views, Stored Procedures, Indexing, Performance Tuning), MySQL, MongoDB, Azure Storage
Cloud & DevOps: Microsoft Azure (App Services, Functions, Service Bus, Key Vault, API Management) · Azure DevOps CI/CD Pipelines · Git & GitHub
Architecture: Microservices, Event-Driven Architecture, Distributed Systems, REST API Design, Background Job Processing, Queue-Based Processing
Engineering: SOLID Principles, Design Patterns (Repository, Factory, Strategy, MVC), Dependency Injection, Clean Code, Unit Testing Practices, Swagger/OpenAPI
Web Fundamentals: HTTP, DOM, SSL/TLS, Client-Server Architecture, Web Servers, Routing, Caching, API Security
Security: JWT Authentication, Role-based & Policy-based Authorization, CORS, Rate Limiting, Security Headers
AI & Tools: GitHub Copilot (daily), ChatGPT (daily), AI-assisted development workflows · Google Gemini · OpenAI API
Dev Tools: Visual Studio, VS Code, IntelliJ IDEA, Postman, Bruno, Swagger UI

CERTIFICATIONS

- Microsoft Certified: Azure AI Fundamentals (AI-900) — Microsoft, Jun 2024
- Foundational C# with Microsoft — freeCodeCamp, Sep 2024
- MERN Full Stack Web Development — GeeksforGeeks, Jan 2024
- The Complete Web Development Bootcamp — Udemy, Jul 2023

PROBLEM SOLVING

Solved **625+ DSA problems** across LeetCode, Coding Ninjas, and GeeksForGeeks — strong analytical and problem-solving skills.

EDUCATION

Lovely Professional University   **Jul 2019 – Aug 2023**
Bachelor of Technology in Computer Science — 7.00 CGPA   *Phagwara, Punjab*