ADNAN BIN FAROOK



Software Engineer | .NET Developer | AI-Assisted Software Engineer

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PROFILE

Software engineer with around three years of experience building secure, maintainable web applications and APIs with **C#**, **ASP.NET Core** and **Azure**. Contributed to **RM Unify**, an identity provider and single sign-on platform used by UK schools, including Scotland's national Glow platform. Most recently worked as a freelance **software engineer**, designing systems, data models and workflows, directing **AI coding agents** to implement them, and verifying the results through automated testing, CI/CD and hands-on review.

TECHNICAL SKILLS

Languages: C#, LINQ, SQL, T-SQL, JavaScript

Backend: ASP.NET Core (MVC, Web API), ASP.NET MVC (.NET Framework), Entity Framework, REST APIs, Swagger, Dependency Injection, Frappe

Frontend: React, Knockout.js, jQuery, AngularJS, HTML/CSS

Security: JWT, RBAC, ASP.NET Core Identity, Microsoft Entra ID, Microsoft Graph API

Cloud & DevOps: Azure Functions, Azure Queue Storage, Application Insights, Azure DevOps, Git, GitHub Actions, CI/CD

Databases: SQL Server, MongoDB, Redis

Testing & Tools: Unit testing, Postman, Visual Studio, VS Code, SSMS

AI-Assisted Development: OpenCode, Claude Code, GitHub Copilot, OpenAI Codex

EXPERIENCE

Aviation Safety Management System **September 2026 – November 2026**

Software Engineer (AI-Assisted Development), Freelance *Remote*

- Designed the back-end of an **Aviation Safety Management System** on the **Frappe** framework, defining the system design, data models and workflows.
- Directed **AI coding agents** (**OpenCode**) to implement custom Frappe DocTypes and **APIs** consumed by a separate **React** front end, while retaining ownership of architecture and quality.
- Established verification through automated back-end and front-end tests, linting, pre-commit checks, **GitHub Actions** deployments with health checks, and manual testing of critical and edge cases from AI-generated test plans.

Independent Software Development **January 2026 – August 2026**

Software Engineer, Self-Employed *Remote*

- Designed and built **Viralippurath Family Web** (viralippurath.com), a community platform with events, announcements, a magazine reader and a photo gallery, using an **ASP.NET Core (.NET 10)** Web API, **React** and **MongoDB**.
- Added an admin dashboard with two admin roles (**RBAC**), activity and error logs, and secure login using **JWT** in protected cookies.
- Deployed to a self-hosted Linux server with separate test and live sites and automatic deployment through **GitHub Actions**.
- Built **GramaHub**, a directory application for managing and browsing people and user records of a local community, using **React** and **MongoDB**.

RM Education Solutions India Pvt Ltd **October 2024 – December 2025**
Senior Software Engineer *Trivandrum, Kerala*

- Delivered features for **RM Unify**, a cloud-hosted single sign-on and identity management platform serving UK schools, colleges and trusts, using **ASP.NET MVC (.NET Framework 4.8)**, **Knockout.js**, clean architecture and SOLID principles in an **Agile** team.
- Led implementation planning for assigned features and took part in design discussions with the lead, manager and architect.
- Served as **Configuration Lead**, maintaining project documents, risk and quality registers, and the team call tree and org tree.
- Trained and onboarded 3 junior engineers and new joiners.
- Maintained and enhanced **Single Sign-On (SSO)** and federated authentication (SAML, WS-Federation) used by connected applications.
- Worked on identity and access management features using **Microsoft Entra ID** and **Microsoft Graph API**, including **RBAC** and group policies; integrated **Google Directory** and **Classroom APIs** for identity management in Google.
- Applied **Redis Cache** to high-traffic modules to reduce database load; designed and consumed secure APIs with authentication, validation and audit logging.
- Built serverless workflows with **Azure Functions** and **Azure Queue Storage**; monitored production with **Application Insights** and shipped through **CI/CD** pipelines alongside QA and DevOps teams.

Skien Software Lab **August 2022 – December 2023**
Software Developer *Trivandrum, Kerala*

- Built and maintained server-side logic and user interfaces for ERP applications with **ASP.NET Core MVC (.NET 7)**.
- Designed and optimised data access using **Entity Framework** and **stored procedures**, improving query performance by 20%.
- Developed secure APIs for external integration and integrated third-party APIs.
- Contributed to hybrid mobile applications using **AngularJS** and **Apache Cordova**.

PROJECTS

Villa Booking Web App | *ASP.NET Core MVC (.NET 8)* **2024**

- Web application for booking and managing villas, with **ASP.NET Core Identity** for authentication and roles, Stripe payments and an ApexCharts admin dashboard.

EDUCATION

MES College of Engineering, Kuttippuram **2018 – 2022**
Bachelor of Technology in Information Technology (APJ Abdul Kalam Technological University) *Kerala, India*

CERTIFICATIONS

Introduction to Software Engineering | *IBM* **January 2026**
C# and .NET | *TestDome* **May 2024**

ADDITIONAL INFORMATION

Nationality: Indian **Languages:** English, Malayalam **Availability:** Immediate