

MOHANASUNDARAM N

.NET FULL-STACK DEVELOPER | TEAM LEAD

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https://mohanasundaramnagaraj.github.io/portfolio

PROFESSIONAL SUMMARY

.NET Full-Stack Developer and Team Lead with 4+ years of experience developing enterprise web applications using ASP.NET Core, .NET Framework, C#, SQL Server, JavaScript, and REST APIs. Experienced in leading development teams, managing multiple projects simultaneously, and delivering scalable business solutions across HRMS, Supply Chain Management, Vendor Management, Online Ordering, and Employee Tracking domains. Skilled in AI-assisted development using Claude Code and GitHub Copilot to improve productivity, code quality, and delivery speed. Strong expertise in Clean Architecture, SOLID principles, Unit Testing, Integration Testing, Cloud architectures (Azure, Azure App Service, Azure Functions), Docker, API integrations, performance optimization, authentication systems, and database design.

TECHNICAL SKILLS

Backend: C#, .NET Core, ASP.NET Core MVC, ASP.NET MVC, .NET Framework, Web API, REST APIs, Entity Framework Core, LINQ, Dependency Injection, Swagger/OpenAPI

Frontend: JavaScript, jQuery, HTML5, CSS3, Bootstrap, Materialize CSS, Responsive Web Design

Database & Testing: Microsoft SQL Server, Stored Procedures, Query Optimization, SQL Profiler, Database Design, Indexing, Unit Testing, Integration Testing

Cloud & DevOps: Azure, Azure App Service, Azure Functions, Docker, Azure DevOps, Git, TFS, Postman

Architecture: Clean Architecture, SOLID Principles, Repository Pattern, Unit of Work, Design Patterns, API Versioning

Security & Automation: JWT Authentication, OAuth, Role-Based Access Control (RBAC), Hangfire, ELMAH, Serilog

Integrations: Salesforce API, Razorpay Payment Gateway, Google Maps API, Leaflet API, Webhooks

AI Tools: Claude Code, GitHub Copilot, Prompt Engineering, AI-Assisted Development

PROFESSIONAL EXPERIENCE

.NET Full-Stack Developer & Team Lead

August 2021 – Present

Spark IT Tech, Tiruppur, Tamil Nadu

- Lead and mentor development teams across multiple enterprise web applications while ensuring coding standards and timely project delivery.
- Manage multiple developers and concurrent projects, coordinating development activities and task execution.
- Delivered 15+ enterprise applications serving 1,000+ users across HRMS, SCM, Vendor Management and Tracking domains using ASP.NET Core MVC, .NET Framework, C#, SQL Server, JavaScript, jQuery, and REST APIs.
- Architect secure authentication and authorization systems using JWT Authentication, OAuth, and RBAC.
- Develop REST APIs and integration services connecting internal applications with third-party platforms.
- Optimize SQL Server databases through query tuning, indexing strategies, and stored procedure optimization.
- Conduct code reviews and enforce Clean Architecture, SOLID principles, Unit Testing, Integration Testing, and development best practices.
- Implement centralized logging and monitoring using ELMAH and Serilog.
- Utilize Claude Code and GitHub Copilot to accelerate development and improve engineering productivity.
- Collaborate with stakeholders to convert business requirements into scalable cloud and Docker-ready technical solutions.

Freelance Full-Stack Developer

2024 – Present

Self-Employed | Remote

- Design, develop, and deploy custom web applications.
- Successfully developed and published Kavinbaala.com.
- Handle complete project lifecycle including requirement gathering, development, deployment, and maintenance.
- Build responsive and secure business applications using ASP.NET technologies and SQL Server.

KEY PROJECTS

Vendor Portal

Technologies: ASP.NET Core MVC, C#, SQL Server, jQuery, Bootstrap, JWT Authentication, REST APIs

- Developed a centralized vendor management platform for supplier onboarding and procurement operations.
- Implemented secure authentication and role-based authorization.

- Built workflow-driven modules for vendor registration, approvals, and reporting dashboards.
- Improved API response time by 40% and reduced SQL query execution time by 60%.

HR Portal

Technologies: ASP.NET Core MVC, SQL Server, jQuery, Bootstrap, Hangfire, Azure App Service

- Developed attendance, leave management, payroll, and recruitment modules.
- Implemented automated background jobs and notifications using Hangfire.
- Built HR dashboards and reporting features to improve operational efficiency.

Online Ordering Portal & BackOffice

Technologies: ASP.NET MVC, SQL Server, jQuery, Bootstrap, Razorpay Payment Gateway, Docker

- Led development of an online ordering and administration platform.
- Integrated Razorpay payment gateway for secure transactions.
- Developed inventory management and order processing modules.
- Implemented role-based access control and administrative workflows.

Supply Chain Management (SCM) Workflow Engine

Technologies: ASP.NET MVC, SQL Server, jQuery, Azure Functions

- Developed workflow automation modules for procurement and inventory operations.
- Designed approval workflows and business process automation.
- Built reporting dashboards and operational monitoring modules.

Salesforce Integration Platform

Technologies: C#, .NET Core, Web API, Salesforce API, JSON, Webhooks

- Designed and executed data exchange pipelines seamlessly connecting backend object-oriented architectures directly to Salesforce instances.
- Developed and maintained reliable integration services utilizing RESTful endpoints and real-time Webhooks.

Employee Tracking System

Technologies: ASP.NET Core, C#, SQL Server, JavaScript, Google Maps API, Leaflet API

- Built an enterprise location intelligence service managing workforce coordinates and geo-tracking operations.
- Integrated mapping visualizers mapping geographical logs onto interactive management dashboards.

Other Projects: Business Intelligence Suite, Smart Documents, E-Voucher System.

ACHIEVEMENTS

- **Top Performer of the Year – 2024 | Spark IT Tech:** Recognized for outstanding project delivery, technical leadership, and contribution to business-critical applications.
- **Innovator of the Year – 2024 | Spark IT Tech:** Awarded for introducing AI-assisted development practices that improved development productivity and engineering efficiency.

EDUCATION

Bachelor of Engineering (B.E.) – Electronics and Communication Engineering

2017 – 2021

MPNMJ Engineering College

- CGPA: 8.82 / 10.0
- Academic Project: Android-based Student Management System for attendance and academic record management.

CERTIFICATIONS

- Web Development Masterclass - Online Certification Course – 2022 (Issued by YouAccel Training / Udemy)
- Learn Microsoft SQL Server from Scratch – 2022 (Issued by Yasir Mehmood / Udemy)
- Front End Web Development Ultimate Course 2021 – 2021 (Issued by Learn Tech Plus / Udemy)
- HTML, CSS, & JavaScript - Certification Course for Beginners – 2021 (Issued by YouAccel Training / Udemy)
- Bootstrap & jQuery - Certification Course for Beginners – 2021 (Issued by YouAccel Training / Udemy)

LANGUAGES

- Tamil (Native)
- English (Professional Working Proficiency)