Roshan K M

Senior Software Engineer | .NET 10 | Blazor | ASP.NET Core Web API | SQL Server | Azure / Entra ID

Domains: EdTech · Finance & Accounting · Logistics · E-commerce · CRM

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UAE Employment Visa (valid to Mar 2028) | 30-day notice period

PROFESSIONAL SUMMARY

Senior Software Engineer with 7+ years building and modernizing education and enterprise platforms on C#, Blazor and SQL Server, growing with the platform from .NET Core 2.1 to .NET 10. Technical lead for the Blazor development team, architect of a high-concurrency Blazor WebAssembly portal, and owner of the Microsoft Entra ID SSO rollout for a legacy ASP.NET WebForms platform serving 100+ SQL Server databases from one codebase. Known for incremental modernization without big-bang rewrites, strong database engineering, secure authentication design, and fast end-to-end production support. Builds products end to end, from requirements and architecture to delivery and support. Daily user of AI-assisted development (Claude Code, GitHub Copilot).

7+ years
C# / .NET delivery

Team Lead
Blazor delivery & mentoring

100+ databases
served by one codebase

Zero-downtime
dual-auth SSO migration

TECHNICAL SKILLS

Languages: C#, T-SQL, JavaScript, HTML5, CSS3, Visual Basic .NET, PowerShell, XML, JSON

Backend & Frameworks: .NET 10 / .NET Core, ASP.NET Core Web API (Controllers & Minimal APIs), RESTful APIs, Blazor WebAssembly & Blazor Server, Razor, ASP.NET WebForms (.NET Framework 4.8), Entity Framework Core, Dapper, LINQ, Microservices, Web Services, Ajax, jQuery

Security & Identity: Microsoft Entra ID (Azure AD) SSO, OAuth 2.0 / OpenID Connect, OWIN middleware, JWT bearer authentication, custom AuthenticationStateProvider, role-based authorization, dependency vulnerability (CVE) remediation

Database: SQL Server: schema design & normalization, foreign keys & constraints, indexing, query tuning, optimistic concurrency, multi-tenant / multi-database architecture, stored procedures

Cloud, DevOps & Tools: Microsoft Azure, AWS, Azure DevOps / TFS, Git / GitHub, IIS, Windows Task Scheduler, SMTP / HTML email, Claude Code, GitHub Copilot

UI & Reporting: Responsive / mobile-first UI, Syncfusion Blazor, DevExpress, SSRS, Bold Reports, Crystal Reports

Practices: Software architecture, legacy modernization (WebForms to Blazor), code reviews, coding standards, technical mentoring, root-cause analysis, production support, requirements analysis

Familiar with: ASP.NET MVC, Flutter, Python, Adobe XD (UI/UX)

PROFESSIONAL EXPERIENCE

Senior Software Engineer
Sep 2019 – Present

Orison Software Specialists, Sharjah, UAE · School-management and enterprise software for multiple school groups and branches, each on its own SQL Server database

Technical Leadership

- Lead Blazor delivery for the development team: set architecture direction and coding standards, run code reviews, and mentor engineers through the move from WebForms to Blazor.
- Architected .NET 10 / Blazor WebAssembly products that integrate with the legacy ASP.NET 4.8 WebForms platform, enabling incremental modernization and avoiding a risky big-bang rewrite.

Architecture & Data

- Designed the data-access layer for 100+ customer and branch databases on a shared SQL Server instance, letting a single codebase serve every client.

- Audited the core academic schema and shipped a corrected migration script adding missing foreign keys, FK indexes, uniqueness and optimistic-concurrency controls, and fixing data-type and nullability inconsistencies to improve data integrity and query performance.

Delivery & Collaboration

- Work with stakeholders and cross-functional teams to turn business requirements into technical designs, then deliver and support them in production.
- Build secure RESTful APIs and third-party integrations, including payment gateways and email services, with database-driven business logic.
- Built operational reports and data-rich UIs with SSRS, Bold Reports, Crystal Reports, Syncfusion and DevExpress.

Products Built End to End — C#, .NET Core / Blazor, Web API, SQL Server, JavaScript

Financial & Accounting Software: delivered for several clients, with full accounts integration and a responsive UI for desktop, tablet and mobile.

Logistics Management System: built from scratch; job-based shipment tracking linked to finance and accounts.

CRM for Product Servicing: built from scratch; admins assign service jobs to staff and control the schedule.

E-commerce Portal: admin and customer sides, product catalogue, cart and payment-gateway checkout.

School MIS & Library Module: academic and administrative workflows for multiple school branches.

Also delivered: Recruitment Portal, Document Management System, Tailoring Management Module, Online Payment.

Reliability & Security

- Own production incidents end to end: root-cause analysis, SQL query tuning, fixes and deployment on IIS.
- Remediated a published CVE in the Microsoft.OpenApi dependency by pinning to a patched release, keeping the API supply chain secure.

KEY PROJECTS

Teachers Portal — Blazor WebAssembly, .NET 10 Web API, Syncfusion Blazor, JWT, SQL Server, IIS

- Architected a teacher dashboard (Feeds, Mails, Timetable, Calendar) for high concurrent usage as a Client / Shared / Server solution on IIS.
- Chose standalone WebAssembly over Blazor Server to eliminate per-user SignalR circuits at peak load; secured with JWT bearer auth and a custom AuthenticationStateProvider.

Microsoft Entra ID Single Sign-On — Entra ID, OWIN, OpenID Connect, .NET 10 Web API, SQL Server

- Leading a phased SSO rollout for the legacy WebForms login: Entra app registrations, OWIN middleware, and mapping users by immutable Entra object ID.
- Designed a dual-auth API that accepts both Entra and legacy JWTs, so existing logins keep working throughout the migration.

Parent Portal & Mobile App — ASP.NET, Web API, SQL Server

- Maintain and extend the parent web portal and mobile app; building user activity tracking and audit logging across both for visibility and compliance.

Automated Greetings Mailer — .NET, Blazor, SQL Server, SMTP, Windows Task Scheduler

- Built a scheduled daily service that queries every branch database and emails personalized birthday and work-anniversary greetings, rendered from Blazor pages with encrypted links and embedded inline images.

EDUCATION

B.Tech, Electronics and Communication Engineering 2015 – 2019

Institute of Engineering and Technology, University of Calicut