ABHAY NAVALE SOFTWARE ENGINEER

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Profile

Full-stack .NET and Angular developer with 2 years of experience designing and implementing scalable APIs, Windows Services, and web applications. Delivered multi-tenant authentication, real-time punch sync, and optimized SQL queries at Emsphere. Skilled in C#, ASP.NET ⌘ Core, Angular, EF Core, SQL Server, and real-time communication technologies (WebSocket, SignalR, RabbitMQ, gRPC). Strong focus on clean architecture, performance tuning, and reliable delivery.

Skills

Programming Languages:
C#, JavaScript, TypeScript, SQL, HTML, CSS

Frameworks and Libraries:
ASP.NET Core MVC/Web API, ASP.NET MVC (Framework), Entity Framework Core, ADO.NET, Angular, NestJS, LINQ, jQuery, Bootstrap

Databases:
SQL Server, MySQL, IndexedDB, better-sqlite3, MongoDB

Communication & Messaging Technologies:
WebSocket, SignalR (.NET), RabbitMQ, gRPC, GraphQL

Testing Frameworks:
xUnit, NUnit, MSTest, Vitest

Tools & Platforms:
Git & GitHub, Postman, Swagger (OpenAPI), Visual Studio, Visual Studio Code, CursorAI, SQL Server Management Studio (SSMS), npm, IIS, Docker (containers)

Concepts & Practices:
RESTful API Development, JWT Authentication & Authorization, Windows Services (background schedulers, jobs), State Management, Database Design & Optimization, Software Development Lifecycle (SDLC), Agile/Scrum methodology, Unit & Integration Testing, Object-Oriented Programming (OOP), Design Patterns, Clean Architecture & Layered Design, Event-driven Architecture

Professional Experience

Software Engineer   11/2023 – Present | Pune, India
Emsphere Technologies Private Limited ⌘
- Collaborated on end-to-end product development and ongoing maintenance, driving solutions to complex business problems and significantly improving product functionality by designing and delivering new, high-impact modules.
- Designed, developed, and maintained scalable applications using .NET Framework, ASP.NET Core Web API, and Windows Services to support business-critical operations.

- Built dynamic, responsive UI components with jQuery and Bootstrap to enhance user engagement and accessibility across devices.
- Engineered and fine-tuned complex SQL queries to enhance data processing speed and optimize database performance.
- Enhanced product stability and scalability by proactively resolving critical issues and optimizing existing modules for improved performance and maintainability.

Projects -

Contract Labour Management System (CLMS)

Technology Stack: ASP.NET ⟢ MVC, SQL Server, jQuery, Bootstrap

- Played a key role in creating and enhancing a comprehensive Contract Labour Management System aimed at optimizing workforce operations.
- Handled and improved essential modules, including Employee Onboarding, Manpower Planning, and Manpower Requisition, ensuring their seamless integration within the overall system.
- Played a vital role in migrating and modernizing UI components using jQuery and Bootstrap, which significantly enhanced performance and user experience.
- Integrated business logic with backend services utilizing the .NET Framework and SQL, while ensuring clean and efficient code.
- Collaborated closely with the QA and product teams to address issues and deliver functional, user ready features on schedule.

Authentication Gateway Application

Technology Stack: ASP.NET ⟢ Core Web API, SQL Server

- Crafted a Gateway API using **.**NET Core Web API to handle centralized authentication for multiple client-specific mobile applications.
- Executed multi-tenant authentication based on unique client company codes to identify and authorize access.
- Built a dynamic redirection system to route authenticated requests to client-specific backend domains for further API interactions.
- Ensured the system supports multiple mobile applications with secure client isolation and easy scalability for onboarding new clients.

Real Time Punch Sync Service (Pub-Sub Pattern)

Technology Stack .NET Framework (Windows Service), SQL Server

- Constructed a Windows Service application using the .NET Framework to facilitate real-time data synchronization between access control systems and client web application databases.
- Designed the system using a publish-subscribe (pub-sub) pattern approach to handle high-frequency, real-time punch (attendance) data effectively.
- Established continuous connections to access control databases to fetch punch records in real-time with minimal latency.
- Applied reliable data transfer mechanisms to ensure timely and accurate dumping of punch data into respective client databases.
- Optimized the service for high throughput and stability to handle frequent data events without performance degradation.

Shift-Based Email Notification Service

Technology Stack: .NET Framework (Windows Service), SQL Server, ADO.NET ⟢ , SMTP

- Engineered a Windows Service application using the .NET Framework to enable real-time communication with the client's web application for shift-based employee punch (Access Control System) tracking.
- Integrated the service to fetch shift schedules for the current day directly from the client's web application via API.

- Enforced a tolerance time monitoring mechanism to track employee attendance within predefined time limits for each shift.
- Ensured continuous data synchronization and real-time monitoring between the Windows Service and web application to maintain up-to-date employee shift data.

Intern   11/2022 – 11/2023 | Pune, India
Transflower Learning Private Limited
- Acquired hands-on experience in developing real-time projects using .NET Core Web API, .NET Core MVC, MySQL, and Angular, applying best practices in full-stack development.
- Orchestrated end-to-end feature integration within Agile sprints, leveraging Postman for comprehensive API testing, which consistently achieved zero defects across multiple consecutive sprints.

Projects -
EAgroServices 🔗
Technology Stack: .NET Core Web API, Angular, MySQL, Git, Github 🔗
- Built a role-based web portal enabling farm owners, collection managers, farmers, transporters, and consignees to manage their business operations.
- Implemented registration, authentication, and profile management per user type, with secure role-based access control.
- Enhanced dashboards with dynamic charts to display revenue, collection histories, and payments for each role.
- Applied security best practices, including JWT token-based authentication, input validation, and role-based authorization to protect user and financial data.

Education

Bachelor Of Computer Science (BCS)   06/2019 – 06/2022 | Pune, India
Savitribai Phule Pune University