Pavan B M

Senior Software Engineer

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Summary

Experienced Full Stack .NET Developer with **4 years+** of end-to-end project development for 6000+ users. Proficient in cutting-edge tech and design, driving a 20% improvement in API response time and a 70% reduction in deployment time. Contributed to cross-functional teams by implementing modern tech and design principles. Eager to deliver impactful results through Azure PaaS expertise, leveraging a proactive C#/.NET approach to drive substantial contributions.

Professional Experience

Senior Software Engineer, *MediAssist Pvt Ltd*   06/2023 – 08/2024
Bengaluru, India

- Streamlined MediAssist claim processing, leading a 5-person C# .NET Core team to achieve a 20% efficiency boost for a 5000-person ops team, while fostering collaborative innovation.
- Bolstered REST APIs response times by 20% through the **Provider-repository Design Pattern**, and software resilience with Features like **retry, timeout, and circuit breaker**, thereby elevating user experience.
- Saved $2,200/month and improved cost efficiency by optimizing REST API logs integration with Big Query.
- Implemented optimized **T-SQL procedures, reducing processing time and boosting CMS efficiency by 30%**, while orchestrating Windows services development in C# with Multithreading, fostering a 20% efficiency gain.
- Migrated legacy monolithic applications to microservices, utilizing **Docker for containerization and Kubernetes with Lens** for pod and replica set management, improving system reliability by 35%.

Software Engineer, *Accenture Solution Pvt Ltd*   10/2020 – 05/2023
Bengaluru, India

- Drove Agile teams to integrate **DevOps CI/CD using Azure DevOps**, leading to a 35% efficiency gain and improved software deployment timelines.
- Restructured **C#.NET Core web APIs with SOLID principles**, resulting in a 50% increase in functionality and performance, leading to higher user engagement and business growth.
- Accomplished a 70% improvement in scalability and reliability by architecting **microservices on Azure Kubernetes Service**, effectively meeting increasing demands and driving positive business outcomes.
- Boosted application performance by 40% by implementing **ReactJs with Redux & Custom hooks**, resulting in increased user satisfaction and engagement.
- **Configured APIM policies for efficient API governance, optimizing performance and deploying Azure Functions** with triggers and bindings, leading to a 30% decrease in response time and ultimately improving operational efficiency.

Technical Skills

C# | .Net | .Net Core | ASP.NET Core MVC, WebAPI | JavaScript | MSSQL| NoSQL | Node | Git & SVN | React | Redux | RabbitMQ | XUnit | Jest | EF core & Linq2db | Microservices | Docker | Kubernetes | Azure DevOps CI/CD | Azure Cosmos DB | Redis Caching, App insights | Azure Service bus | Azure K8s with ACR | Azure functions & APIM.

Projects

Platform - Commands Microservices ☐

- Developed and deployed Platform and Command microservices with CRUD operations using the Repository pattern in .NET Core 6, containerized with Docker, and orchestrated via Kubernetes.
- Enabled synchronous communication via HTTP and gRPC (HTTP/2 without TLS) and asynchronous messaging through RabbitMQ for eventual consistency between microservices.

IDEAL RestAPI ☐

- The project is organized into distinct folders, promoting clean architecture principles and adherence to SOLID. This modularity ensures scalability and maintainability, with clear separation of data access, business logic, and request handling.
- Custom middleware and action filters handle cross-cutting concerns like logging and exception management. Integration of Polly adds resilience with retry and circuit breaker patterns, enhancing reliability and fault tolerance.
- The project includes comprehensive unit tests using xUnit and Moq, ensuring high code quality and reliability. Dependency injection throughout the application enhances testability and simplifies maintenance.

Boutique-Hotel React ☐

- The project covers the full stack, including React fundamentals, Redux for state management, and .NET API for backend operations, providing a well-rounded approach to modern web development.
- key features like authentication, authorization, and shopping cart management, mirroring real-world applications and enhancing practical development skills.
- The organized structure into specific modules like CRUD operations, lifecycle methods, and API setup promotes best practices in code organization, making the project easy to scale and maintain.

Education

Bachelors of Engineering (CGPA 9.3 / 10), *P.E.S College of Engineering*   05/2016 – 06/2020
CourseWork: Electronics and Communication   Mandya, India

Certifications and Awards

- Oracle Infra Cloud Generative AI Certification 2024
- Microsoft Certified: Azure Developer Associate (**AZ-204**)
- Microsoft Certified: Azure Fundamentals (AZ-900)
- Microsoft certified: Azure Security, Compliance, and Identity Fundamentals (SC-900)
- Recognized for completion of Accenture's TechLeap program and subsequent promotion to Software Engineer, attaining high marks for proficiency and dedication
- Technical two months Internship in Larsen & Toubro, Mysore. Successfully designed and developed a functional e-commerce website utilizing ASP.NET MVC 4.5 and SQL Server, demonstrating proficiency in web fundamentals and .NET technology basics.