

Mohamed Thoyyib K

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SUMMARY

Highly-skilled .NET Core Software Engineer specializing in designing and building scalable, multi-tenant backend systems using Clean Architecture, DDD, and CQRS patterns. Possesses full-stack capabilities, developing modern user interfaces with Next.js, React, and Angular to deliver end-to-end solutions for the healthcare, marine, and insurance sectors. Proven to enhance application performance by up to 99.5% through targeted optimizations.

SKILLS

.NET Core, C#, EF Core, PostgreSQL, SQL Server, Clean Architecture, DDD, SOLID, CQRS, Mediator, FastEndpoints, Hangfire, Quartz, LazyCache, xUnit, NSubstitute, Next.js, Angular, React, TypeScript, JavaScript, Tailwind CSS, PrimeReact, UI/UX, Azure AD B2C, Keycloak, Git, Linux, REST APIs, Microservices, Docker, PDFSharp, Lob, mssql, CI/CD, Azure Functions, Azure App Service, K8s

WORK EXPERIENCE

Bytestrone

Software Engineer

Mar 2023 - Jul 2025

Kochi

- Architected a caching and query optimization strategy that slashed initial load times from 42s to 200ms, improving application responsiveness by 99.5%.
- Engineered a multi-tenant administrative dashboard for 1,000+ tenants and 100,000+ users, providing real-time visibility into user training progress and certification status.
- Spearheaded the modernization of legacy data systems by creating a "one-click" solution to migrate and parse over 70,000 records, fully automating a complex manual onboarding process for new tenants.
- Integrated secure, single sign-on (SSO) authentication flows using Keycloak and Azure AD B2C for over 100,000 users across multiple enterprise applications.
- Instituted a distributed job execution framework using Hangfire and Quartz to automate recurring workflows, including complex wage/overtime calculations and report generation.
- Automated the on-demand generation of digital certificates upon training completion, providing instant, verifiable proof of authenticity for users and administrators.
- Mentored junior developers through comprehensive code reviews and technical guidance, elevating team-wide code quality and accelerating project timelines.
- Designed and implemented a custom, interactive scheduling UI for appointment and shift management, featuring drag-and-drop rescheduling to eliminate manual coordination efforts.

Pennonn

Full-Stack Developer

Sept 2022 - Feb 2023

Kochi

- Constructed a full-stack Animal Bidding web application using .NET Core and Angular, featuring a responsive UI and custom authentication.
- Fortified backend security by engineering and integrating secure RESTful APIs, improving data integrity and protecting sensitive endpoints.
- Enhanced front-end usability by implementing robust form validations and sophisticated state management.

PROJECTS

Job Framework

Feb 2025 - Mar 2025

- Engineered a reusable job scheduling system using Quartz and Hangfire to fully automate critical report generation and overtime workflows, eliminating manual processing and ensuring timely execution.

Cache Framework

Jan 2025 - Jan 2025

- Authored a lightweight, Redis-based caching layer for .NET Core APIs, achieving a 40% reduction in average query latency.

BrainlyBot

Jan 2023 - Feb 2023

- Created an AI-powered chatbot integrating ChatGPT APIs to automate content responses and enhance user accessibility support.

EDUCATION

MES College of Engineering, Kuttipuram
Bachelor in Technology in Computer Science

Aug 2017 - Jun 2021

CERTIFICATIONS

Introduction to Blockchain Technologies

Coursera

Programming for Everybody (Python)

Coursera