

Devansh Messon

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Experience

Software Development Engineer 2 | Kongsberg Digital, Bangalore

Vessel Performance Merchant - Maritime

July 2022 – Present

- Cut bundle size by 40% using lazy-loaded Angular modules with dynamic imports and tree-shaking.
- Developed scalable RESTful APIs with **CQRS** pattern to handle **2.5k+** maritime sensor streams using ASP.NET Core, EF Core, and SQL Server, ensuring data integrity.
- Improved API performance by **98%** (**44s → 0.9s**) via caching, query optimization, and request minimization.
- Delivered real-time analytics for **15+** sensor types by building a serverless, event-driven ETL pipeline in Azure Functions for multi-tenant maritime data.
- Angular 15, ASP.NET Core 8, C#, EF Core, SQL Server, Azure Functions, Git, Agile

Grid Intelligence AI Assistant - Energy

July 2024 – Aug 2024

- Developed GenAI ReAct agent with **3** custom tools for natural language querying of **10K+** electrical grid records.
- Created prompt templates mapping queries to structured JSON API parameters with **95%** accuracy.
- Integrated ChatGroq LLaMA3-**70B** with smart tool routing, reducing grid analysis from hours to seconds.
- Built memory-enabled chatbot for contextual, multi-turn conversations supporting predictive grid monitoring.
- Python, LangChain, ReAct Agents, ChatGroq/Llama3, Prompt Engineering, Generative AI

Event Management Platform - HR

July 2023 – Aug 2023

- Developed a scalable event-management platform serving **10K+** employees across **5** departments, supporting **500+** concurrent users with sub-second latency.
- Built real-time QR attendance scanning system, cutting check-in time by **90%** and eliminating manual errors.
- Implemented PBKDF2 password hashing (**10K** iterations) and JWT-based authentication for secure user access.
- Developed **17** REST APIs for bulk employee data imports and live event management, optimizing scalability via Azure Cosmos DB partitioning.
- Angular 14, ASP.NET Core 6, Azure Cosmos DB, Bootstrap 5, D3.js, EF Core, Figma

Skills

- **Frontend Development:** Angular, HTML, Javascript, CSS
- **Backend Development:** ASP.NET Core, C#, RESTful APIs
- **Cloud & DevOps:** Azure Functions, Azure Cosmos DB, Git, Agile
- **Database:** SQL Server
- **Design Pattern:** Singleton, Factory Method, Repository, Dependency Injection (IoC), Observer, Strategy, CQRS

Education

University of Petroleum and Energy Studies, Dehradun

2018 - 2022

Bachelor of Technology, Computer Science (CGPA: **8.36/10.0**)

Honors & Awards

- **Competitive Coding:** CodeChef April Lunchtime 2021 Div. 2 (**509/4K**) , Oct Cook-off 2020 Div. 2 (**626/4K**), Codeforces Round #695 Div. 2 (**3,419/19K**). Solved **400+** problems, CodeChef: **4★** (Highest)
- **Hackathons:** UPES-CSI Hackathon 4.0 (First Runner up), UPES-CSI Hackathon 3.0 (Finalist)
- **Publications:**
 - IEEE ICCCIS-2021: "Comparative Study Of Various Approaches Of Dijkstra Algorithm" [\[Link\]](#)
 - ICFIRTP-2020: "Comparative Study of Time Optimization Algorithms for Traveling Salesman Problem" [\[Link\]](#)