Mohammed Yassar
MERN Stack Developer

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Profile Summary

Passionate full stack developer specializing in **building scalable** back-end systems and **dynamic front-end applications**. Proficient in **TypeScript** and adhering to **Clean Architecture** and **SOLID principles** to develop **robust and maintainable code**, with a strong focus on **software architectures and design patterns**.

Technical Skills

- **Frontend:** React.js, Next.js, Tailwind CSS, Material UI, Handlebars (HBS), React-Redux, Redux Toolkit, NextAuth.js, HTML, CSS, AJAX
- **Backend:** Node.js, Express.js, REST API, Microservices, TypeScript, Clean Architecture, Data Structures and Algorithms (DSA), Firebase, Python, FastAPI
- **Database:** MongoDB, PostgreSQL, Firestore
- **DevOps:** Docker, Kubernetes, GitHub Actions, Skaffold
- **Integrations:** Razorpay, AWS S3 Buckets, Nodemailer, NATS, Twilio
- **Tools & Platforms:** Git, Postman, DigitalOcean, NGINX, Cloudinary, AWS, Figma
- **Additional Experience:** Worked with Socket.IO, WebRTC, SaaS platforms, and integrated LLM models such as ChatGPT API, LLaMA model, and Gemini.

Experience

Full Stack Developer, Aithemis.ai – Remote   June 2024 – April 2025

- Aithemis.ai is a legal tech startup offering AI-powered tools that streamline legal work, making it smarter, faster, and more accessible.
- Worked closely with team to build a comprehensive AI-driven application for legal practices, playing a major role in both front-end (React.js, Next.js, Tailwind CSS) and back-end (Node.js, Python, AI model integration) development.
- Worked on integrating AI models with the application, optimizing the performance of legal tools for document analysis and case management.
- Contributed to the development of a Virtual Moot Court application, working across both frontend and backend using React, Gsap, Node.js and Python, and integrated advanced language capabilities using the LLaMA model for AI-driven features.
- Developed advanced features such as live video calling systems and real-time collaborative text editing tools as part of other products.
- Worked closely with cross-functional teams, ensuring the smooth delivery of new features and performance optimizations in production.

Mern Stack Developer (Intern / Trainee),Brototype – Calicut,Kerala   Jan 2023 – Feb 2024

- Collaborated on multiple projects, including e-commerce platforms and program registration systems, handling full-stack development from design to production.
- Delivered end-to-end solutions, working closely with clients to understand their needs and implement features using React.js, Node.js, and MongoDB.
- Developed several personal projects to explore new technologies and improve skills, including projects focused on optimizing front-end and back-end performance.
- Gained hands-on experience with web development frameworks, DevOps processes, and system architectures to ensure scalability and robustness.

Projects

HawkInvoice - Multi-tenant SaaS for Invoice Management   **GitHub:** Frontend | Backend

- An intuitive online platform designed to help businesses manage their day-to-day operations, including invoicing for products/services and tracking financial data.
- Developed using a microservices architecture with an asynchronous message queue system using NATS streaming.
- Designed with scalability and maintainability in mind, adhering to Clean Architecture and SOLID principles.
- Application structure divided into five distinct services: customers, invoices, organization, tenants, and clients.
- Includes features such as managing organizations, customers, goods/services, and generating reports through a detailed dashboard.
- Containerized all services using Docker and orchestrated them with Kubernetes for efficient deployment.
- Designed and executed REST APIs to ensure seamless functionality across both mobile and web applications.
- **Technologies Used:** Node.js, TypeScript, Next.js, Express, Redux, MongoDB, JWT, Microservices, Clean Architecture, Docker, Kubernetes, NATS, SOLID principles, GitHub Actions, Tailwind CSS, Nodemailer.

NutriVue AI – Smart Nutrition Tracking App   **GitHub:** Frontend | Backend

- Full-stack nutrition tracking app with AI-powered food image analysis.
- Features include Google OAuth, email authentication, goal-based calorie tracking, and daily logs.
- FastAPI backend with PostgreSQL database for user data and food logs.
- React.js frontend (TailwindCSS) with interactive dashboards, macro charts, and calendar view.
- AI Integration: Gemini LLM Vision Model detects food and calculates nutrition automatically.
- **Technologies Used:** Python, FastAPI, React.js, Next.js, TailwindCSS, PostgreSQL, Redis (caching), Gemini LLM.

MaleFashions - E-commerce Platform   **GitHub:** Link

- An e-commerce platform featuring product listing, cart, checkout, coupon management, and payment gateway integration.
- Developed an admin panel with features like sales data visualization and management of products, users, and coupons.
- Designed and implemented the entire platform using MVC architecture for better separation of concerns.
- **Technologies Used:** Node.js, Express, Handlebars, MongoDB, Nodemailer, Razorpay.

Education

Indira Gandhi National Open University (IGNOU), Bachelor of Computer   June 2024 – 2027
Applications (BCA) – Delhi, India (Distance Education, Currently Pursuing)

- **Coursework:** Computer Science, Web Development, Data Structures and Algorithms, Database Management

GHSS Peruvallur, Kerala, Computer Science – Higher Secondary Education   Jan 2021 – 2023

- Specialized in Computer Science with focus on programming (C++/Python), database systems (SQL), operating systems, computer networks, web technologies, and software engineering, building a strong foundation for advanced studies and career in technology.