

MUHAMMED NABEEL C

MERN STACK DEVELOPER

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PROFILE SUMMARY

Self-taught full stack developer specializing in MERN, with a strong desire to create scalable and maintainable applications. Proven expertise in JavaScript, complemented by analytical and problem solving skills. Eager to contribute dynamic talents to organizations seeking innovation in web development.

SKILLS

Programming Languages: JavaScript, TypeScript

Back End Development: Node.js, Express, RESTful API Development, Microservices, Clean Architecture, Monolithic, MVC Architecture, gRPC, Apache Kafka

Front End Development: Next.js, React.js, Redux, WebRTC, WebSocket, Tailwind, DaisyUI, Material Tailwind, Flux Architecture, Bootstrap, Sass, jQuery, Ajax, HTML, CSS

Database: MongoDB, PostgreSQL

Tools: Git, GitHub, Docker, Postman, VS Code

Expertise in: Data Structures & Algorithms

Familiar with: AWS, AKS, Kubernetes, CI/CD, Nest.js, GraphQL, Java, Rust

PROJECTS

Zakaa - An Educational Networking Solution Source Code : [Backend](#) | [Frontend](#) | [Live Link](#)

An innovative educational networking platform where learners and instructors connect to share knowledge. Instructors can easily apply to join this platform and once approved by the admin, users can create courses, exams, live sessions and announcements to enrich the learning experience.

- Platform allowing users to access both **free** and **paid courses**, with videos seamlessly converted to the **HLS format (m3u8)** for optimal streaming quality based on internet speed.
- Enabled real-time interaction through **chat**, **audio** and **video** features, enhancing engagement and collaboration among learners and instructors.
- Facilitated **live streaming** sessions and Incorporated **exams** option for each lesson to assess **learning progress**, enhancing the platform's educational value.
- Implemented **announcement** features for course updates and achievements, fostering community engagement through **likes**, **dislikes** and **comments**.
- Architected the platform using **microservices** to prioritize scalability, adopting **clean architecture** principles and leveraging **Apache Kafka** for efficient interservice communication.
- Utilized containerization with **Docker** and deployment on **Azure Kubernetes Service** to streamline deployment and ensure optimal performance and scalability.

Technologies Used :

Node.js, Express, TypeScript, MongoDB, Next.js, Tailwind, Redux, Next-Auth, Recharts, Microservices, Clean Architecture, SOLID principles, Docker, Kubernetes, GitHub Actions, AKS, Cloudinary, Socket.io, WebRTC, Video SDK, SendGrid, Stripe, JWT, FFmpeg, Hls.js

Bytez - A Dynamic E-commerce

[Source Code](#) | [Live Link](#)

An e-commerce website dedicated to smartphone sales, allowing customers to browse and purchase products online. The application features a user-friendly interface, secure payment system, customers can create accounts, shop smartphones, track their order status and give reviews and ratings.

- Engineered a **user-friendly interface** with features such as an intuitive **shopping cart**, **easy checkout** process and **diverse payment methods**.
- Implemented secure **JWT** authentication and **Razorpay** integration to ensure safe and efficient payment processing. Key features include **wallet transactions**, **coupon** and **referral offers**, **order tracking**, **cart** and **order management**, **product** and **category offers**.
- Integrated a robust **admin panel** equipped with comprehensive order management tools, allowing efficient control over products, orders, and user accounts.
- Leveraged **AWS** Cloud Service **EC2** (Elastic Cloud Computing) along with **Nginx**, **Certbot** and **PM2** for deployment, resulting in a high performing, reliable and secure platform with the capacity for seamless scalability.

Technologies Used :

Node.js, Express, JavaScript, MongoDB, React.js, Tailwind, Redux, Material Tailwind, Monolithic, MVC Architecture, AWS, EC2, Elastic IP, Nginx, PM2, Certbot, GitHub, JWT, Multer, Passport.js, Nodemailer, Cron Job, PdfKit, Razorpay, Chart.js

MINI PROJECTS

Hyva - A Collaborative Coding Platform

[Source Code](#) | [Live Link](#)

A collaborative coding platform empowers multiple users to edit the same document simultaneously, with real-time synchronization of changes. Additionally, users can write code in various programming languages, save their work and retrieve it later for further modifications or execution.

Technologies Used : TypeScript, Node.js, Express, React, Ace Editor, Multi Threading, WebSocket

OLX - Clone Design

[Source Code](#) | [Live Link](#)

A clone of OLX designed using React, utilizing Firebase Auth service for user authentication and Firebase Storage for storing images of the products. Registered users can add their products to sell.

Technologies Used : React.js, Firebase Authentication, Firebase Storage

Exnode - Node.js Framework

[Source Code](#) | [Live Link](#)

A modern Node.js framework written in TypeScript, designed for ease of use and flexibility in building server-side applications.

Technologies Used : TypeScript, Node.js

EDUCATION

MERN Stack Development

Brototype, Calicut

2023 - Present

Plus Two - Computer Science

PTMYHSS, Palakkad

2021 - 2023