

Meghaj MB

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[Linkedin](#) | [Github](#)

Professional Summary

Full-Stack Developer with hands-on experience in the MERN stack, microservices, and scalable architecture. Skilled in building real-time features using WebSockets and WebRTC, and deploying applications using Docker, Kubernetes, and AWS. Focused on clean code, performance, and delivering production-ready solutions.

Technical Skills

- Frontend: React.js, Next.js, Redux, Figma,Three.js,React Three Fiber
- Backend: Node.js, Express.js, JavaScript, TypeScript
- Database: MongoDB, SQL, Firebase
- Version Control: Git, GitHub
- DevOps & Cloud: Docker, Kubernetes, AWS, Google Cloud
- Architecture & Design: Microservices, SOLID Principles,MVC

Projects

Academia – E-learning Platform with Real-Time Bidding

[Github](#) | [Live](#)

Stack: TypeScript, Node.js, Express, Next.js, MongoDB, Kafka, Redis, AWS (S3, ECS Fargate, CloudFront), Terraform, Kubernetes

- Built a scalable e-learning platform with **role-based access** (User/Instructor/Admin), course enrollment, and **real-time bidding** using virtual currency.
- Integrated **Razorpay** for payments, **Socket.IO** for real-time bidding/notifications, and **Kafka** for async event processing.
- Handled video uploads (**S3** + **CloudFront CDN**) and implemented dynamic **FFmpeg** transcoding using **ECS Fargate**, with Kafka orchestrating job queues and status updates.
- Cached frequently accessed data with **Redis** and secured auth via **JWT**.
- Implemented secure N:N video calling using **Mediasoup SFU** without any third-party services.
- Deployed on **GKE**, provisioned infra with **Terraform**, and followed **SOLID** principles + layered architecture using repository pattern.

Alchemy – E-commerce Platform for Alcohol Sales

[Github](#)

Stack: Node.js, JavaScript, Express, EJS, CSS, Bootstrap, Socket.IO, Passport.js, AWS EC2, Nginx

- Architected an alcohol e-commerce platform with User/Admin roles, including product management, order processing, and real-time admin support (Socket.IO).
- Engineered secure authentication via **Google OAuth** (Passport.js) and OTP verification (Nodemailer) for sensitive actions.
- Designed responsive frontend with Bootstrap + CSS, following MVC architecture for scalability.
- Deployed on **AWS EC2** with **Nginx** reverse proxy, ensuring high availability in production.

Experience

Full-Stack Developer Intern2024 – 2025

Brototype

- Built full-stack applications using the MERN stack.
- Collaborated on real-time and REST-based web apps following industry standards.
- Gained hands-on experience with Git, CI/CD practices, and responsive UI design.

Freelance Full-Stack Developer2025 – Present

Remote

- Developed and deployed custom web applications for clients using Next JS, and MongoDB.
- Designed scalable architectures, integrated third-party APIs, and optimized performance.
- Delivered responsive UIs with Tailwind CSS and ensured cross-device compatibility.

Education

Bachelor of Technology (B.Tech), Computer Science and Engineering2019-2023

University College of Engineering, Kariavattom