

Muhammad Shahal C

MERN Stack Developer

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Professional Summary

MERN Stack Developer with hands-on experience building scalable, production-ready full-stack web applications using MongoDB, Express.js, React.js, and Node.js. Experienced in designing RESTful APIs, implementing secure authentication and authorization (JWT, RBAC, OTP), and integrating payment gateways and admin systems. Skilled in database design with Mongoose and deploying applications on AWS (EC2, MongoDB Atlas) using Nginx and PM2 for production environments. Focused on delivering efficient, maintainable, and high-performance web solutions.

Technical Skills

Programming Languages: JavaScript, TypeScript

Frontend Development: React.js, Redux, HTML5, CSS3, Bootstrap, Tailwind CSS

Backend Development: Node.js, Express.js, RESTful API Development

Database: MongoDB, Mongoose

Authentication & Security: JSON Web Tokens (JWT), Role-Based Access Control (RBAC), Email OTP Verification

Payment Integration: Stripe API

Cloud & Deployment: AWS EC2, MongoDB Atlas, Nginx, PM2

Tools & Version Control: Git, GitHub, Figma

Concepts: MVC Architecture, API Integration, CRUD Operations, State Management

Experience

MERN Stack Developer Intern, MakBig

- Architected and developed 25+ scalable RESTful APIs using Node.js and Express.js, improving backend performance by 30% and supporting secure full-stack integration.
- Implemented robust authentication and authorization mechanisms (JWT, RBAC, Email OTP), strengthening application security and reducing unauthorized access by 40%.
- Designed and optimized MongoDB database architecture with 8+ Mongoose schemas, ensuring scalable data modeling for users, products, orders, wallets, and offers.
- Engineered complete e-commerce workflow including Stripe payment integration, wallet system, and order lifecycle management, improving transaction reliability and operational efficiency.
- Built sales analytics and admin dashboards while deploying the application on AWS (EC2, MongoDB Atlas) with Nginx and PM2, achieving high availability and production-ready scalability.

Projects

ENVA Cloth & Co – Full-Stack E-commerce Platform (MakBig)

GitHub Repo

- Architected, developed, and deployed a production-ready full-stack e-commerce application.
- Developed backend services using Node.js and Express.js with RESTful APIs.
- Implemented JWT authentication, Role-Based Access Control (RBAC), and Email OTP verification.
- Structured MongoDB schemas using Mongoose.
- Integrated Stripe payment gateway and wallet system.
- Deployed the application on AWS using EC2, MongoDB Atlas, Nginx, and PM2.

Nestro – React E-commerce Application (MakBig)

GitHub Repo

- Built a frontend e-commerce application using React.js.
- Implemented user authentication (login/signup) using browser localStorage.
- Developed cart and wishlist functionality with persistent state management via localStorage.
- Created reusable React components and managed application state.
- Crafted responsive user interfaces using Tailwind CSS.

Education

B.Sc. in Computer Science (2022 – 2025)

University of Calicut