

# Athulkrishna E B

## MERN Stack Developer

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### Professional Summary

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MERN Stack Developer with a strong foundation in full-stack web development and a deep passion for building scalable, user-centric applications. Proficient in modern JavaScript technologies including MongoDB, Express.js, React.js, and Node.js, with additional experience in TypeScript, Redux Toolkit, and RESTful API design. Skilled in implementing clean, maintainable code using architectural best practices such as MVC, SOLID, and Clean Architecture. Having experience deploying and managing applications using cloud platforms like AWS and tools such as Nginx and Git. Demonstrates a problem-solving mindset, a commitment to continuous learning, and a drive to deliver high-performance seamless web solutions.

### Skills

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- Programming Languages: JavaScript, TypeScript
- Frontend Development: React.js, Next.js, HTML, CSS, Tailwind CSS, Bootstrap, Material-UI (MUI), Shadcn UI, Redux Toolkit, Redux
- Backend Development: Node.js, Express.js, MongoDB, SQL, JWT, WebSocket, webHooks
- Deployment: AWS EC2, Nginx, Docker, Git, GitHub, Vercel, Render
- APIs Architecture: RESTful API, MVC Architecture, Clean Architecture, SOLID Principles
- Computer Science Fundamentals: Data Structures and Algorithms
- Tools and Platforms: Postman, Figma, Firebase, Cloudinary, Razorpay, Stripe

### Projects

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#### FireBoots – E-commerce Platform

[Live](#) – [GitHub](#)

- Developed a full-featured e-commerce application with product browsing, advanced filtering, cart management, and secure checkout functionality.
- Built an admin dashboard with sales analytics using Recharts, product and inventory management, and order tracking for efficient business operations.
- Implemented JWT-based authentication with bcrypt password encryption and OTP email verification through Nodemailer for enhanced security.
- Integrated RazorPay payment gateway for secure online transactions and Cloudinary for optimized image management with cropping capabilities.
- Designed a responsive user interface with React, Tailwind CSS, and Material-UI, managing state with Redux Toolkit and React Query for efficient data fetching.
- Built RESTful APIs following MVC architecture with Express.js and MongoDB, containerized backend services using Docker for consistent deployment.
- Deployed frontend on Vercel and backend on AWS EC2 with Docker containers, configured with Nginx for improved scalability and reliability.
- Tech Stack: React, Redux Toolkit, React Query, Node.js, Express.js, MongoDB, Docker, AWS EC2, Nginx, Tailwind CSS, Material-UI, Razorpay, JWT, Cloudinary, Recharts

#### Dux – Mentorship Service Platform *(In Development)*

[Github](#)

- Developed a full-stack mentorship platform using Next.js 15 with server-side rendering, enabling users to discover mentors, book sessions, and manage appointments seamlessly.
- Implemented secure authentication using NextAuth v5 with Prisma adapter, supporting credential-based and OAuth login with Google for protected sessions and role-based access control.
- Built a scalable backend with Prisma ORM and PostgreSQL, following clean code principles and type-safe

development with TypeScript and Zod validation.

- Designed a modern, responsive UI using Shadcn UI, Radix UI, Tailwind CSS, and Framer Motion for smooth animations, enhancing user experience across all devices.
- Integrated Cloudinary for media management and Resend for automated email notifications, with session booking using react-day-picker and date-fns.
- Developing real-time chat and video calling features using Socket.IO and WebRTC, with form validation handled by React Hook Form and Zod resolvers.
- Tech Stack: Next.js 15, TypeScript, Prisma, PostgreSQL, NextAuth v5, Shadcn UI, Radix UI, Tailwind CSS, Framer Motion, Cloudinary, Resend, React Hook Form, Zod, Socket.IO, WebRTC

## Mini-Projects

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### Blog App – Simple Blogging Platform

[Live](#) – [GitHub](#)

- Built a social blogging platform using NestJS, React.js, and PostgreSQL with TypeORM for handling users, articles, and relationships efficiently.
- Developed follow and favorite features, enabling personalized article feeds and author interactions.
- Designed scalable RESTful APIs following repository architecture and clean code principles using NestJS and TypeORM.
- Created a modern, responsive frontend with React.js and Tailwind CSS for an engaging reading and writing experience.

### Dev Events Platform

[GitHub](#) – [Live Demo](#)

- Built a full-stack event management platform for showcasing, creating, and registering events.
- Utilized Next.js 16 with app-router and performant caching strategies.
- Implemented CRUD API routes and server-side logic for event creation and registration.
- Integrated Cloudinary for image uploads and PostHog for usage analytics.
- Styled using Tailwind CSS to deliver a clean, responsive UI/UX.

## Experience

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### Full Stack Web Development Trainee

2024 – Present

Brototype, Cochin

- Completed an intensive program focused on MERN stack development, equivalent to 2 years of industry-level experience.
- Developed multiple hands-on projects reviewed weekly by industry experts, with a strong focus on scalability, security, and performance.

## Education

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### Bachelor of Science (B.Sc.) in Computer Science

2019 – 2022

Calicut University

- Graduated with a strong academic foundation in Computer Science, building expertise in programming, algorithms, and software development principles.