

# AMITH K M

## MERN Stack Developer

[amith143.km143@gmail.com](mailto:amith143.km143@gmail.com) | 8156913931 | Kerala

 [LinkedIn](#)  [Portfolio](#)  [GitHub](#)

## Profile Summary

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Self-taught MERN stack developer with 1 year of hands-on experience in building full-stack applications using React.js, Node.js, Express.js, MongoDB, and JavaScript. Passionate about collaborating on web development projects and eager to contribute my skills to a dynamic team focused on growth and innovation.

## Technical Skills

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Languages & Runtimes	: JavaScript, TypeScript, Node.js
Frameworks & Libraries	: Express.js, React.js
Front-End Development	: Tailwind CSS, Redux Toolkit, HTML, CSS
Databases & ORM	: MongoDB, PostgreSQL, Mongoose, SQL
Familiar With	: AWS, Nginx, OAuth 2.0, Firebase, JWT, Postman, MVC, Git, GitHub, RESTful API, ShadCn UI, OOPs, GitHub, Vite, Next.js

## Experience

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### Applied Research Developer

Brototype, Kochi, Kerala

jan 2024 – Present

- Conducting in-depth research on modern web technologies and best practices to build scalable, industry-ready full-stack applications.
- Developing real-world applications, including lms and e-commerce platforms, using **React, Redux, Node.js, MongoDB, and RESTful APIs**.
- Working in a professional development environment, adhering to **Agile methodologies**, using **version control (Git)**, and performing structured code reviews to ensure **quality, scalability, and maintainability**.
- Enhancing problem-solving and self-learning skills through independent research, peer collaboration, and live deployments.
- Program equivalent to **1 year of professional MERN stack development experience**, covering both frontend and backend technologies.

## Projects

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### Full-Stack E-Commerce Platform (MERN)

[GitHub](#) [Live Link](#)

**Tech Stack:** MongoDB, Express.js, React.js, Node.js, Redux Toolkit, Tailwind CSS

- Developed a robust and responsive e-commerce platform with **separate Admin and User panels** using the MERN stack.
- Integrated **Google Sign-In using OAuth 2.0**, in addition to **JWT and OTP-based authentication**, enhancing user onboarding and security.
- Designed user-facing features including **product browsing, pagination, sorting, filtering, search, wishlist, cart management, order placement, order tracking, and profile management**.

- Integrated **Razorpay** for secure payment processing and developed **wallet-based payment support** to enable both full and partial payments
- Built a dynamic **Admin Dashboard** for managing **Products, Categories, Colors, Brands, Offers, Coupons, Users, and Orders** and viewing **real-time sales**.
- Utilized **Redux Toolkit** for efficient state management and **Tailwind CSS** for building a clean, responsive UI.

## Learning Management System (In-Progress)

[GitHub](#)

**Tech Stack:** Next.js, TypeScript, Tailwind CSS, MongoDB, Node.js, Express.js, React Query

- Building a scalable, modular LMS with a **Next.js + TypeScript** frontend and **Node.js + Express** backend, following the Repository Pattern and SOLID principles for clean, maintainable architecture.
- Implemented **role-based authentication** with NextAuth.js, supporting three roles: **Admin, Instructor, Student**.
- **Instructor features:** Create and manage courses, modules, lessons, and quizzes.
- **Admin features:** Manage instructors and students, and create categories.
- Integrated **AWS S3** and **Cloudinary** for secure storage of course assets (documents, videos, images).
- Enabled students to **enroll via Stripe payments** and access course materials securely.

## Mini Projects

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### Gemini-Powered Dev Tool

[GitHub](#)

Developed an AI-powered developer tool using **React** and **Firebase**, integrated with **Google Gemini API** to assist developers with code suggestions, debugging tips, and documentation lookup.

### Personal Portfolio Website

[GitHub](#)

Built a fully responsive and animated personal portfolio using **Next.js** and **Framer Motion** to showcase projects, skills, and contact information, with integrated **Nodemailer** functionality for direct email communication via the contact form.

## Other Mini Projects

- **OLX** using ReactJS and **Firebase**
- **Netflix** using ReactJS and **Firebase**
- **Todo App** using ReactJS

[GitHub](#)

[GitHub](#)

[Live Link](#)

## Education

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**Bachelor of Technology (B.Tech) in Electrical and Electronics Engineering**

2014-2018

*NSS College of Engineering, Palakkad, Kerala*