

# Anees M

Kerala, India | [aneesdropz@gmail.com](mailto:aneesdropz@gmail.com) | +91 9562390326

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

## Summary

Full-Stack Developer with strong expertise in the MERN stack and modern web development. Specialized in building secure, scalable, and API-driven applications with real-time features and clean architecture. Proven ability to design production-ready systems including AI-powered e-commerce platforms and learning management systems. Committed to continuous learning, performance optimization, and writing maintainable industry standard codebases.

## Technical Skills

- **Languages:** JavaScript, TypeScript, HTML5, CSS3
- **Frontend:** React.js, Redux, Tailwind CSS, Shadcn UI, Bootstrap, Material UI
- **Backend:** Node.js, Express.js, Socket.io, RESTful APIs, Cloudinary, Node Mailer, JWT Authentication
- **Databases:** MongoDB, Firebase
- **DevOps Deployment:** Git, GitHub Actions, CI/CD, AWS (S3, CloudFront, Elastic Beanstalk), Vercel, Netlify, Render
- **Tools Platforms:** Postman, Figma, VS Code, MongoDB Atlas, GoDaddy, DNS

## Experience

### Software Development Trainee

Mentor Bro June 2025 – Present

- Built and deployed scalable backend services for a real-time learning management platform using **Node.js**, **Express**, and **MongoDB**.
- Designed and implemented secure **RESTful APIs** with **JWT**-based authentication and role-based access control for admins, instructors, and students.
- Integrated real-time communication using **Socket.io** for live chat, instructor broadcasts, and student interactions.
- Modeled and optimized MongoDB schemas with **Mongoose**, improving performance through indexing and population.
- Established centralized **middleware** for token validation, error handling, and request validation to improve security and maintainability.
- Structured the backend using clean MVC architecture with modular routes, controllers, services, and socket handlers.
- Integrated **Nodemailer** for OTP-based email verification and secure account recovery workflows.
- Maintained environment-based configuration and Git-based version control for deployment-ready development pipelines.

## Projects

### E-Commerce Web Application *JavaScript, React, Redux, Tailwind CSS, Node.js, Express, MongoDB, AWS S3, EC2*

[GitHub](#) | [Live](#)

Production-ready, cloud-hosted e-commerce platform focused on secure authentication, scalable system design, and high-performance media delivery.

- Designed and developed a full-stack platform using clean **MVC** architecture for scalability and maintainability.
- Built and documented **RESTful APIs** for products, users, orders, and secure checkout workflows.
- Dynamic slider and category sections managed by Admin, complete profile and address management, dynamic wishlist and cart, coupon system, seamless **Razorpay**, **COD**, **wallet** payment integration, real-time order tracking with cancel/return flows.
- Implemented **JWT**-based authentication and granular role-based **authorization** for users and administrators.
- Developed an admin dashboard for inventory, coupon systems, orders, and promotional banner management.
- Implemented **AI-powered** chat and **rule-based** order tracking using ChatGPT APIs to automate customer support and order status updates.
- Engineered secure cloud-based image handling using **Multer**, **AWS S3**, and **CloudFront** CDN.
- Designed and integrated a **CI/CD** workflow with **GitHub Actions** that automates **testing**, client **build**, and server **deployment** to **AWS Elastic Beanstalk**, reducing manual deployment effort and improving release reliability.
- Improved application security using **Helmet**, **CORS**, **rate limiting**, and **Joi-based** backend validation.

## AmCloths—Custom Apparel Platform *JavaScript, TypeScript, React, Redux, Node.js, Express, MongoDB, Cloudinary*

Built a scalable, design-driven e-commerce solution that transforms customer creativity into purchasable apparel, improving user engagement through AI-assisted design, seamless customization, and efficient order management workflows.

- Developed a full-stack platform enabling users to **design** and **purchase** personalized apparel using customized design images and live previews.
- Built a type-safe frontend with React and TypeScript, using Redux to manage authentication, **user and guest cart** state, product customization, and checkout.
- Built a role-based **admin dashboard** for end-to-end platform management including product catalog, order processing, user administration, coupon management, dynamic banner management, and media handling with secure APIs.
- Developed a customization **Studio** where users can choose T-shirt variants and apply predefined graphics or upload custom designs with live rendering and placement controls.
- Implemented **JWT-based** authentication and **role-based** access control for customers and administrators.
- Designed optimized MongoDB schemas for users, products, orders, and custom designs with **indexing** and **population**.
- Integrated **Cloudinary** for secure media uploads, storage, and image optimization.

## Mini Projects

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### Weather App | *React.js, JavaScript, CSS3, HTML5*

[GitHub](#) | [Live](#)

A sleek single-page weather app crafted with React.js, JavaScript, HTML5 and CSS3. Seamlessly integrated the OpenWeather API to deliver real-time updates, offering users a visually appealing and informative weather experience.

### Chat App | *React, Node.js, Socket.io*

[GitHub](#) | [Live](#)

A customer-agent chat app build with React.js, JavaScript, HTML5, Express, CSS3 and Tailwind. Implemented socket.io server on top of HTTP server and made a room to connect and chat between customer and customer agent. Any new customer will be added on que and agent joins on their room first-come-first-serve basis.

### Finance Tracker | *React.js, JavaScript, CSS3, HTML5*

[GitHub](#)

Finance tracker application to record daily finance usage. Implemented local storage for seamless data persistence and incorporated features for adding, editing and deleting financial records.

### Contacts Manager | *JavaScript, Node.js, Express*

[GitHub](#)

Developed backend for a contacts managing app, including login authentication, CRUD operations on contacts depending on the role and authorization. Used Node.js and Express along with Postman for API calls.

## Education

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- **Bachelor of Engineering in Electronics and Communication Engineering**

Bengaluru, India *HMSIT, VTU*