

# MRIDULA O C

## MERN Stack Developer

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### PROFILE SUMMARY

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Passionate MERN Stack Developer with hands-on experience building user-friendly and responsive web applications using **MongoDB, Express.js, React, and Node.js**. After being a homemaker for 22 years, I followed my passion for technology and became a self-taught web developer. I enjoy learning new things, solving problems, and creating useful digital solutions. I'm looking for a chance to work with a team where I can keep learning, contribute my skills, and grow as a developer.

### SKILLS

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**Programming Languages:** JavaScript, TypeScript

**Back End Development:** Node.js, Express.js, RESTful API Development, Clean Architecture, Monolithic, MVC Architecture, Schema Design, Authentication (JWT, OAuth2, bcrypt, Passport.js)

**Front End Development:** React, Redux, WebSocket, Tailwind CSS, Bootstrap, Material UI, HTML, CSS, EJS

**Database:** MongoDB

**Tools:** Git, GitHub, Postman, VS Code, Figma, Canva

**Knowledge Of:** Data Structures & Algorithms

**Familiar with:** AWS, Vercel, C, Java, Firebase

### PROJECTS

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#### Parent Teen Life Academy-A learning management system

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

**Parent Teen Life Academy** is a dynamic e-learning platform that simplifies course management, enhances real-time interactions, and ensures a seamless learning experience for students and instructor. It offers secure transactions, structured content management, and an intuitive admin dashboard for efficient user and course oversight.

- **Seamless Course Management** – Instructors can create, organize, and update course content effortlessly.
- **Real-Time Interactions** – Enables live communication between instructor and students through chat and live classes.
- **Secure Authentication**– Uses **JWT and Passport.js** for authentication, ensuring secure access control.
- **Efficient Payment Processing** – Integrated **Razorpay API** for seamless and secure transactions.
- **Optimized Media Handling** – Used **Cloudinary** for image storage and **Vimeo** to host course videos securely and efficiently.
- **Admin Dashboard** – Provides an easy-to-use dashboard for managing users, courses, orders and enrollments.
- **Scalability & Performance** – Built with **Clean Architecture**, ensuring maintainability and modularity for future expansion.
- **Optimization & Deployment:** Ensured a **responsive UI** across all devices and implemented **custom middleware for authentication & authorization** to enhance security and scalability. Application is deployed on **AWS**.

**Technologies Used:** Node.js, Express.js, React.js, TypeScript, MongoDB, Redux Toolkit, Cloudinary, Axios, Nodemailer, Chart.js, Cron, Socket.IO, webRTC, Google OAuth2, JWT, Razorpay API, bcrypt, Tailwind CSS, Material UI, AWS, Nginx, PM2, GitHub, Vercel

## Adalene- E-commerce Web Application

[GitHub](#)

A feature-rich e-commerce platform enabling secure transactions, dynamic product management, and real-time order tracking.

- **Planning & Design:** Started with **Figma** to map out the UI and user journey.
- **Database & API Design:** Designed the database schema in **MongoDB** and documented API endpoints for structured development.
- **MVC Architecture:** Implemented a **Model-View-Controller (MVC)** pattern using **Node.js, Express.js, and EJS** for clean and maintainable code.
- **Authentication & Payments:** Integrated **Google OAuth2, Passport.js** for secure login and **PayPal API** for seamless transactions.
- **Feature Implementation:** Developed **dynamic product management, cart handling, order processing, and real-time tracking** with an optimized **admin panel** for managing users, products, and orders.
- **Optimization & Deployment:** Ensured a **responsive UI** across all devices and implemented **custom middleware for authentication & authorization** to enhance security and scalability. Application is deployed on AWS.

**Technologies Used:** Node.js, Express, JavaScript, MongoDB, EJS, Bootstrap, Monolithic, MVC Architecture, AWS, Nginx, PM2, Certbot, GitHub, JWT, Multer, Nodemailer, PayPal

## EDUCATION

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### MERN Stack Development

Prototype

2024 - Present

### Bsc Electronics

College Of Applied Sciences, Calicut

First Class (75%)

1998 - 2002