

# SHAHANA V V

MERN Stack Developer

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## Profile Summary

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Self-motivated MERN stack developer with a background in electronics engineering, driven by a passion for creating impactful digital solutions. Skilled in building scalable web applications and solving complex problems, with expertise in JavaScript, TypeScript, React.js, Node.js, and MongoDB. Committed to continuous learning and adapting to challenges to deliver innovative results.

## Technical Skills

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- **Languages:** JavaScript, TypeScript, C, Java
- **Frontend:** React.js, HTML, Redux, Tailwind CSS, Bootstrap, Handlebars (HBS), CSS
- **Backend:** Node.js, Express.js, REST APIs, Repository Architecture, MVC, Mongoose
- **Infrastructure:** Data Structures, npm, Nginx, PM2, Load Balancing, CI/CD pipelines
- **Databases:** MongoDB, MySQL
- **Integration:** Razorpay, Multer, Socket.IO, Firebase, JWT (JSON Web Token), Nodemailer, Zegocloud
- **Deployment:** AWS EC2, GitHub Actions, Route 53, SSL, Render
- **Developer Tools:** Visual Studio Code, GitHub, Postman, Figma, Moon modeler
- **Computational Skills:** Data Structures and Algorithms
- **Soft Skills:** Self-learning, Problem-solving, Time management, Adaptability, Organizational skills

## Experience

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### BROTOTYPE — MERN Stack Developer

Sept 2023 - Present, Kochi

### Main Projects

#### Decode International - Educational Consultancy Website

- Developing **Decode International**, a real-time project for an educational consultancy firm with secure authentication, real-time chat using **Socket.IO**, and video conferencing powered by the **ZEGOCLOUD SDK**.
- Building the backend using **Express.js** and **MongoDB** (with **Mongoose**), following the **Clean architecture** to ensure maintainability and scalability, and integrated **Razorpay** for seamless payment processing.
- Created a responsive frontend with **React**, styled using **Tailwind CSS**, and managed state with **Redux**, with authentication handled by **JWT**, **Nodemailer**, and **Firebase** (Google and GitHub logins).
- Integrated **Firestore** for efficient storage and delivery of files and images, with enhanced API security using access and refresh tokens, along with **Axios interceptors**.

#### Yoobuy - E-commerce Website

- Developed **Yoobuy**, an online dress store with core **E-commerce functionalities**.
- Designed responsive UIs using **Handlebars (HBS)** and **Bootstrap**, ensuring cross-browser compatibility and optimized UX.
- Built server-side logic using **Node.js**, **Express.js**, and **MongoDB** with **Mongoose** for database management, and created **RESTful APIs** for CRUD operations, user management, and order processing.
- Implemented secure registration and authentication using **Nodemailer** for email OTP verification.
- Developed advanced product filtering, cart, wishlist, and seamless purchasing with Cash on Delivery (COD) or online payments via **Razorpay**.

- Integrated a **wallet** system to manage funds from returns or cancellations.
- Built an **Admin console** to manage products, stock, view statistics, download reports, and more.
- Deployed on **AWS** for high availability and scalability, and configured **Nginx** as a **reverse proxy** and **load balancer**.

## Mini Projects

- Netflix Clone (React)
- OLX Clone (React)
- User Management System (React, Redux)

## DECODE INTERNATIONAL LLP — Frontend Developer (React.js) & Documentation Coordinator

Apr 2021 - Jan 2023, Palakkad

- Developed and maintained dynamic, responsive web applications using React.js, improving user experience and performance.
- Managed form handling and validation using Formik & Yup, ensuring data integrity and improved user interactions.
- Worked on UI/UX improvements, ensuring mobile responsiveness and accessibility.
- Managed and maintained student education-related documents and queries, streamlining documentation processes.
- Collaborated with cross-functional teams to improve internal systems for handling student records.

## KELTRON — Graduate Engineer Trainee

Feb 2020 - Feb 2021, Malappuram

- Worked on the design, testing, and implementation of electronic systems, contributing to the development of communication systems and embedded products.
- Assisted senior engineers in troubleshooting and optimizing hardware and software for various projects.

## Education

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**B.Tech in Electronics and Communication Engineering**

2012 - 2016

MES College of Engineering, Malappuram, Kerala

CGPA: 7.89