

# Arshad VKB MERN Stack Developer

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## Skills

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Javascript | Nodejs | express.js | rest api | React | Mongo Db | Python | Django |  
MySQL | Html | Css | Bootstrap | Tailwind | Raspberry pi | OOPS | Java | Git |  
GitHub | postman

## Projects

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### Aero-ai

02/2025 – 03/2025

Python, Node.js, Flutter, Embedded C, MQTT, Appwrite

- Developed AI-powered aeroponics system with Raspberry Pi and computer vision, increasing crop yield by 25%.
- Automated nutrient delivery and environmental control, reducing water use by 30% and optimizing tomato growth.
- Implemented machine learning-based disease detection, reducing crop loss by 20%.
- Used sensors to monitor temperature, humidity, and pH, improving crop quality by 15%.
- Integrated automated dosing system for precise nutrient delivery, cutting waste and boosting efficiency by 35%.

### Library Management System

09/2025 – 09/2025

MERN, MongoDB, Express.js, React.js, Node.js

- Developed a robust digital library management system using the MERN stack (MongoDB, Express.js, React, Node.js), facilitating book cataloging, user borrowing, and personalized recommendations to boost resource accessibility and user retention by 35%.
- Created an intuitive search and discovery interface with advanced filters, reducing search time by 40% and enhancing user satisfaction through effortless navigation.
- Implemented an admin dashboard for inventory management, overdue tracking, and analytics reporting, streamlining operations and decreasing manual errors by 28%.
- Leveraged MongoDB for scalable NoSQL data handling and JWT for secure user authentication, ensuring data integrity and compliance with privacy regulations while supporting up to 5,000 active users.

### Real time Chat App

10/2025 – 10/2025

MERN, daisyUi, Socket.io

- Developed a scalable real-time chat application using React , enabling instant messaging, group chats, and file sharing to enhance user connectivity and collaboration by 40%
- Engineered a responsive UI with intuitive chat interfaces, and typing indicators, reducing user drop-off rates by 35% through improved engagement and seamless navigation.
- Built an event-driven backend with Node.js, Express, and Socket.io for low-latency real-time updates, supporting up to 1,000 concurrent users with minimal downtime.
- Integrated end-to-end encryption using JWT , along with MongoDB for efficient data storage and retrieval, ensuring compliance with privacy standards and boosting user trust by 25%.

## Education

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### Bachelor of Computer Science

2022 – 2025

College of Applied Science Vazhakkad, Malappuram

## Certificates and Achievements

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Tharang 2K25 (Organized By IHRD) Hardware Project Expo Winner