

Arshad VKB *MERN Stack Developer*

arshadvkb969@gmail.com | +91 907 477 3366 | Calicut, Kerala | linktree

Skills

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

Projects

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

Bachelor of Computer Science

2022 – 2025

College of Applied Science Vazhakkad, Malappuram

Certificates and Achievements

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