

Ashwin V

MERN Stack Developer

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Profile Summary

Full-stack developer with hands on experience building production ready MERN applications including multi tenant platforms, real time systems, and serverless CRMs, with end to end ownership from backend architecture to cloud deployment.

Technical Skills

Languages: JavaScript, Typescript, JAVA, C, MongoDB, Postgresql, HTML, CSS

Libraries & Frameworks: Express.js, React, Next.JS, Material UI (MUI), Shadcn

Backend & Architecture: Node.js, RESTful APIs, MVC Architecture, CLEAN Architecture

Cloud & Platforms: Firebase, AWS EC2, AWS S3, Railway, Vercel

Tools: Git, GitHub Actions, Jest, Supertest, Cypress, k6, Docker

Projects

WorkspaceOps – Multi-Tenant Workspace Management Platform | NextJS, [Live](#) | [GitHub](#)
TypeScript, Shadcn, Node.js, Express, MongoDB, WebSockets, Docker

- **Built a multi-tenant workspace platform** with role-based access control and isolated environments using REST APIs.
- **Architected backend using Clean Architecture + Modular Monolith**, ensuring strict dependency inversion and scalability.
- Implemented **JWT authentication, rate limiting, and workspace-scoped access control** for secure multi-user operations.
- Enabled **real-time updates using Socket.io** with event-driven architecture for workspace-level synchronization.
- Set up **CI/CD pipeline with GitHub Actions + Docker** and deployed backend on AWS EC2, frontend on Vercel (Next.js SSR).
- Covered system with **unit (Jest), integration (Supertest), and E2E (Cypress)** tests; validated performance using k6.

Business CRM & Operations Platform | React, Firebase, Firestore, Cloud Functions, [Live](#) | [GitHub](#)
Node.js

- Built a full-stack serverless CRM platform to manage leads, members, agreements, invoices, and expenses.
- Designed and implemented a role-based access control (**RBAC**) system using **Firestore Custom Claims** with granular permissions enforced at both backend and frontend levels.
- Developed secure **Cloud Functions** APIs for business workflows, including agreement lifecycle management and member transitions.
- Implemented dynamic PDF generation for invoices and agreements and integrated email delivery using **Nodemailer**.
- Reduced manual effort up to 60% in invoice and agreement generation

Dkart: Multi-Seller E-commerce Marketplace | Node.js, Express, MongoDB, AWS [Live](#) | [GitHub](#)
S3, Razorpay

- Built a **multi-tenant** e-commerce platform supporting customers, sellers, and super admins.
- Designed a multi-seller checkout system that splits a single cart into seller-specific orders while maintaining a unified transaction.
- Integrated **Razorpay Payment Gateway**.
- Used **MongoDB aggregation** pipelines to generate analytics dashboards
- Implemented **AWS S3** media handling within an **MVC-based backend architecture**.

Mini Projects

Vending Simulator Node.js, Socket.IO, Razorpay, Firebase RTDB QR-code-based vending machine payment backend with real-time Socket.IO dispensing.	GitHub
XPath Finder JavaScript, HTML, CSS Browser extension to extract XPath from webpages for automation workflows.	GitHub
Swing Calculator Java, Java Swing Desktop calculator built with event-driven UI components.	GitHub

Experience

Freelance Full stack Developer MERN Stack (Node, Express, MongoDB, React, Next.js)	Jan 2025 – March 2026 Remote
Freelance Web Designer & Developer Web design, landing pages, Chrome extensions, basic JS	Jan 2022 – Dec 2024 Remote

Education

MERN Stack Development Self-learning	2025 – Present
Higher Secondary (Computer Science) Christ Nagar Higher Secondary School, Trivandrum, Kerala	2023 – 2025