

VIVEK V R

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Profile Summary

Self-taught MERN stack developer based in Thrissur, Kerala, passionate about building scalable and reliable applications. Curious to explore distributed systems, enthusiastic about problem-solving, and committed to writing clean, readable, and maintainable code. Driven by the goal of leveraging technology to create impactful and user-friendly products.

Technical Skills

Programming Languages: JavaScript, TypeScript, SQL

Frontend: React, Redux, TailwindCSS

Backend: Node.js, Express, REST APIs, Socket.io

Database: MongoDB, PostgreSQL

Tools & Platforms: Git, Docker, Vitest, Postman, Vercel, Render, Netlify, Firebase

Projects

Multi-Tenant B2B Project Management Platform | *React, MongoDB, Node, Express* [Live](#) | [GitHub](#)

- Designed and developed a full-stack, multi-tenant B2B project management system enabling teams to manage workspaces, projects, and tasks with fine-grained access control.
- Implemented **Google OAuth** with **Passport.js** and JWT-based cookie session management for secure and seamless authentication.
- Integrated **role-based access control (RBAC)** to manage owner, admin, and member permissions within each workspace.
- Developed a user invitation system allowing team members to join workspaces with role assignments and automatic email onboarding.
- Engineered a modular, scalable backend using **Express.js** and **Mongoose**, with **Zod** for validation and environment-safe config handling via **dotenv**.
- Built a modern, responsive UI using **React**, **Tailwind CSS**, and **Shadcn UI**, featuring an interactive analytics dashboard powered by **React Table** and **React Query**, and deployed using **Docker** + **Render CI/CD**.

AI-Powered Job Portal | *React, MongoDB, Node, Express, Redux* [Live](#) | [GitHub](#)

- Developed a full-stack job portal connecting recruiters and job seekers with a seamless hiring workflow.
- Integrated AI job-profile matching using **Google Gemini** embeddings, achieving **85–90%** match accuracy during testing.
- Implemented secure authentication & **Role-Based Access Control (RBAC)** using **JWT** and encrypted sessions.
- Built real-time chat and video calling features using **Socket.io** & **ZegoCloud** to support communication between candidates and recruiters.
- Designed and implemented **CRUD modules for jobs, profiles, applications, and companies with skill-based search & advanced filters**.
- Strengthened security using **rate-limiting**, **Arcjet bot detection**, **XSS & SQL Injection prevention**.
- Improved backend reliability using **Zod** schema validation and unit testing with **Vitest**.
- Automated deployment with **Docker** containerization and CI/CD via **Render**, enabling continuous production rollouts.

Education

Diploma in Computer Engineering

Kerala, Thrissur

Government Polytechnic College, Chelakkara