KM Gnana Deepak

Full Stack Developer — MERN Stack — DSA Enthusiast

📞 +91 9441652345 | ✉ [Email](#) | 🔗 [LinkedIn](#) | [GitHub](#) | 🌐 [Portfolio](#) | </> [LeetCode](#)

Education

B.Tech – Computer Science and Engineering   2023 – 2027
Kuppam Engineering College — CGPA: 8.01

Projects

Kisan Setu – Farmer–Merchant Digital Platform   [Live Demo](#) | [GitHub](#)
Tech Stack: MongoDB, Express.js, React.js, Node.js, JWT, RBAC

- Engineered a scalable **MERN-stack agri-commerce platform** featuring **three dedicated role-based dashboards (Farmer, Merchant, Customer)** secured using **JWT-based RBAC authentication**.

- Implemented **AI-powered crop disease detection with instant nearby-merchant notification**, enabling farmers to share analyzed crop details directly with shops for faster trade opportunities.

- Developed **end-to-end farm-to-market transaction workflows** including smart price suggestions, product listing, merchant discovery, real-time order lifecycle tracking, notification systems, and customer feedback modules.

SafeFall – Fall Detection Web App   [Live Demo](#) | [GitHub](#)
Tech Stack: MongoDB, Express.js, React.js, Node.js

- Architected a MERN-based real-time fall detection system processing accelerometer streams at **20Hz** with automated SOS dispatch and **<3s emergency notification latency**.

- Built secure **JWT authentication with RBAC authorization** for **3 distributed user roles**, enabling reliable real-time hospital–caregiver alert coordination.

- Designed scalable **Node.js microservice-based REST architecture (15+ APIs)** with MongoDB persistence and validation pipelines, reducing false alerts by **30%**.

- Implemented geolocation-based hospital routing engine notifying **10+ emergency centers** with live location payload delivery and containerized backend deployment using **Docker**.

Technical Skills

Languages	:	Java, JavaScript
Core CS	:	Data Structures & Algorithms, System Design, Operating Systems, Computer Networks, Distributed Systems, OOP
Frontend & Backend	:	React.js, Node.js, Express.js (REST APIs, JWT, RBAC)
Databases	:	MySQL, MongoDB, Supabase
DevOps	:	Docker, CI/CD (GitHub Actions), Deployment (Vercel, Render)
Tools	:	Git, GitHub, Postman

Work Experience

Website Design and Development Intern – istudio   Dec 2025 – Jan 2026

- Developed 5+ responsive full-stack web modules using HTML, CSS, JavaScript, and REST-based backend services, improving cross-device usability across deployed internship applications.

- Integrated 10+ REST APIs into frontend workflows to enable structured client–server data exchange

- Built the **SmartTask Hub** full-stack task management platform enabling authenticated multi-user collaboration workflows supporting 50+ active users via modular REST API architecture.

Honors & Achievements

- **Winner – 24 Hour Hackathon** (Among 80 teams) , Sri Manakula Vinayagar Engineering College, Puducherry

- Secured **1st Place – Web Design Competition** (among 60 teams) , Kuppam Engineering College

- Achieved **Runner-up – Technical Quiz** (among 45 teams) , AitheronML'25