

KM Gnana Deepak | Full Stack Developer Intern

☎ + 91 9441652345 | 📍 Andhra Pradesh | ✉ kmgnanadeepak@gmail.com | [LinkedIn](#) | [GitHub](#) | [LeetCode](#)

EDUCATION

B. Tech – Computer Science and Engineering

Kuppam Engineering College | 2023 – 2027 | CGPA: 8.01

WORK EXPERIENCE

Web Development Intern (Virtual) – Cognifyz Technologies / Nov 2025 – Dec 2025

- Developed a MERN task management system with JWT authentication and role-based access, supporting secure multi-user workflows.
 - Designed and tested scalable Node.js & Express backend services using Postman, validating 15+ APIs and ensuring reliable end-to-end data flow.
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PROJECTS

Safe Fall – Fall Detection Web App (PWA) / React.js, Supabase, Web Sensors API – [live demo](#)

- Engineered a sensor-driven fall detection pipeline processing accelerometer data at ~20Hz, automating SOS alerts with live location sharing within 3 seconds of fall detection.
- Designed a hospital–patient alert coordination module to route verified fall events to registered hospitals.
- Reduced false alerts by ~30% during simulated real-world testing.
- Backend alert validation implemented via Supabase Edge Functions and secure database triggers.

TaskFlowX– Scalable Task & Workflow Management Platform / MERN

- Created a role-based task management platform using the MERN stack with JWT authentication, supporting Admin, Manager, and Member access levels.
 - Implemented strict backend workflow validation to enforce task state transitions, business rules, and secure authorization.
 - Developed 10+ scalable RESTful APIs with pagination and filtering.
 - Implemented centralized error handling and request validation.
 - Enabled real-time updates using WebSockets and optimized MongoDB queries (indexing & aggregation), achieving sub-300ms response times under concurrent load.
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TECHNICAL SKILLS

Languages: Java, JavaScript

Backend: Node.js, Express.js (REST APIs, JWT Authentication)

Databases: MySQL, MongoDB, Firebase

DevOps: Docker, CI/CD (GitHub Actions)

Tools & Architecture: Git, GitHub, Linux, Postman, Role-Based Access Control

Core CS: Data Structures & Algorithms (Java – active LeetCode practice), OOP, Operating Systems

CERTIFICATIONS & ACHIEVEMENTS

- AWS Cloud Practitioner Essentials – AWS Training & Certification
- Full Stack Web Development – Apna College
- Java Programming – Scaler
- **Winner – 24 Hour Hackathon**, secured among 60 teams at Manakula Vinayagar Engineering College, Puducherry, by building Safe Fall, a real-time fall detection & emergency alert web app.
- Technical Quiz – Runner (AitheronML'25) at Kuppam Engineering College