






Karthik Krishna M

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Professional Experience

Prediscan MedTech, Full Stack Developer Intern (Remote)

12/2024 – present | Chennai, India

- Created interactive prototype dashboards using Streamlit, enabling rapid demonstration and validation of AI-powered diagnostic features for internal stakeholders and clients.
- Contributed to the company's public-facing website built with React and Vite, improving site performance and responsiveness to enhance brand presence and user engagement.

Smartail Pvt Ltd, Product Engineering Intern

07/2024 – 11/2024 | Chennai, India

- Refactored backend logic in Java for the Deepgrade Status Tracker, improving code maintainability and aligning with clean architecture principles.
- Optimized RESTful APIs, reducing response times by up to 35%, significantly improving the performance of the Deepgrade Status Tracker. Enhanced the UI using Angular, improving usability and visual consistency across the Deepgrade Status Tracker based on user feedback and modern UX best practices.

Roles and Responsibilities

Placement Coordinator

2025 – present

M.Sc Decision and Computing Sciences

Projects

Digital Land Registry Application

Tools Used: Flask, MongoDB

- Developed a full-stack Digital Land Registry web application, implementing secure property management with user authentication, admin verification workflows, and real-time auction systems with automated completion scheduling.
- Engineered and integrated multiple algorithm design techniques including Greedy Algorithms for personalized property recommendations, Dynamic Programming for optimal auction bidding strategies, Divide & Conquer for efficient large-dataset searches, achieving improvement in search performance for datasets.

Online Voting Portal - MERN Stack App

Tools Used: MongoDB, ExpressJS, NodeJS, ReactJS

- Orchestrated the creation of an Online Voting Portal leveraging contemporary web technologies, enabling global users to engage in convenient and secure voting practices, thereby bolstering democratic engagement.
- Instituted resilient user authentication protocols, integrated multi-factor authentication featuring OTP, and deployed secure, anonymous voting mechanisms, safeguarding the credibility and openness of the voting process while prioritizing user confidentiality and data protection.

Fitness Training Studio - MEAN Stack App

Tools Used: MongoDB, ExpressJs, Angular, NodeJs

- Leveraged MEAN stack to build a comprehensive fitness companion that empowers users to take charge of their fitness goals.
- The application empowers both users and administrators. Users can view plans, manage profiles, and track progress. Administrators can manage user data and update fitness plans to ensure effectiveness and adapt to user needs.

Education

M.Sc Decision and Computing Sciences

2021 – present | Coimbatore, India

Coimbatore Institute of Technology

CGPA: 8.54

Interests

Full Stack Development | Web Development | DBMS | Data Structures | Logical Coding | Aptitude Solving

Skills

- **Database:** MySQL, MongoDB
- **Languages:** Python, Java, SQL, Javascript, Typescript
- **Web Development Frameworks:** Angular, React.js, Flask
- **Server-side Development:** Node.js, Fast APIs
- **Soft Skills:** Flexed, Collaborated, Scheduled efficiently, Coordinated tasks

Activities

- **Pragyan 23, National Institute of Technology, Trichy:** Grant Thornton Lean Six Sigma Yellow Belt - Grant Thornton
- **Hyperverge SenseAi Hackathon:** Competed as a part of Team LEB in a 30-hour continuous hackathon, solving real-world challenges using Gen AI

- **redBus Data Decode Hackathon:** Competed a part of Team VizWhiz in a virtual hackathon to predict the final seatcount of buses travelling in any route.