








Karthik Krishna M

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Experience

- Prediscan MedTech** Dec 2024 – present | Chennai, India
Full Stack Developer Intern (Remote)
- 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** Jul 2024 – Nov 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.

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.
 - Implemented robust security architecture using HMAC-SHA256 cryptographic hashing for document verification and data integrity, ensuring tamper-proof property records and secured ownership transfers.
- 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 tackling accessibility concerns and 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.
 - Engaged in collaborative development via GitHub, adhering to established norms for efficient teamwork, encompassing regular commits, pull requests, code evaluations, and issue monitoring, fostering a dynamic and transparent development atmosphere for the project.
- 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.
 - The MEAN stack delivers a responsive and user-friendly interface, making it easy to navigate and use and provides a foundation for a scalable system that can handle a growing user base

Interests

Full Stack Development | Database Management | Logical Coding | Mobile App Development

Education

- M.Sc Decision and Computing Sciences** 2021 – present | Coimbatore, India
Coimbatore Institute of Technology
CGPA: 8.54

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