Karthikeya Madhavan

9398885055 | karthikeyadonnipad2005@gmail.com | linkedin.com/in/karthikeya-madhavan |
github.com/karthikeyamadhavan123

Education

National Institute of Technology   Tadepalligudem, AndhraPradesh
Bachelor of Technology in Computer Science   *Nov 2022 – present*
- Cumulative GPA : **8.0/10.0**
- Relevant Coursework: Machine Learning, Advanced Data Structures and Algorithms, Object-Oriented Programming (OOP), Computer Networks, Database Management Systems (DBMS), Operating Systems

Srichaitanya Institute
Intermediate College   *Apr 2020 – Nov 2022*
- Percentage : **98.6%**

Work Experience

Full Stack Web Developer   Sep 2024 - Nov 2024
Unified Mentor   *Gurgaon, Delhi*
- Designed and developed **EPLQ (Exam Practice & Learning Quiz)**, a full-stack web application using the MERN stack, aimed at enhancing students' coding and problem-solving skills through interactive learning
- Implemented a dynamic quiz system that provides real-time coding challenges and MCQs, enabling students to practice and receive instant feedback
- Developed a performance analytics dashboard using **Chart.js and D3.js** to visualize students' progress, strengths, and areas of improvement
- Implemented role-based authentication and authorization using JWT and OAuth to ensure secure access and user management
- Optimized backend performance by implementing efficient database indexing and caching strategies, improving API response time by 40%

Technical Skills

- **Programming Languages**: Python, Core Java, C/C++, Basics of Haskell
- **Web Technologies**: HTML, CSS, JS, React JS, Next JS, MongoDB, Node JS, Express JS, Spring Boot

Scholastic Achievements

- Designed and developed the college's flagship events websites - Techkriya - using modern web technologies to enhance event visibility and participant engagement

Projects

Store IT - Cloud Storage Platform | *MERN Stack Development*
- Developed a secure **cloud storage platform** using **Next.js, Appwrite, Redux, and WebSockets**, enabling multi-format file storage and real-time collaboration
- Implemented **role-based access control** system with secure file sharing capabilities and **real-time synchronization** for seamless multi-user collaboration
- Built an **analytics dashboard** to monitor storage metrics, access patterns, and user activity with optimized performance

Wanderlust – AI-Powered Travel Planner | *Full Stack Web Development, AI Integration*
- Developed a full-stack AI-powered travel planning platform that provides personalized itinerary suggestions based on user preferences, budget, and travel history.
- Implemented a **recommendation engine** using machine learning algorithms to suggest destinations, accommodations, and activities.
- Integrated **real-time weather forecasting** and **location-based services** to enhance user experience.
- Built an interactive **map-based UI** using Google Maps API, allowing users to explore destinations and plan routes efficiently.