

Karthik Thokala

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SUMMARY

Software Developer with expertise in DSA, System Design, React.js, and Node.js, focused on building high-performance, scalable applications. Experienced in modern web technologies and architectural principles, with a strong foundation in developing efficient and maintainable solutions. Eager to contribute to impactful projects and grow in the field.

TECHNICAL SKILLS

- **Languages:** C++ , JavaScript , Python
- **Front-End:** React.js, Redux Toolkit, Tailwind CSS, HTML5/CSS3
- **Back-End:** Node.js, Express.js, RESTful APIs , MongoDB
- **Developer Tools:** Git, GitHub Actions, Postman ,VS Code
- **Core CS:** Data Structures & Algorithms, OOP, System Design(Basics), DBMS, OS, Networking

EXPERIENCE

Software Engineer Virtual Internship

June 2024 - July 2024

J.P. Morgan Chase

Remote

Project: J.P. Morgan Stock Market Data Visualization

Technologies Used: Python3, React.js, TypeScript, Git, Perspective, Financial Data APIs, Web Applications

- Engineered a real-time stock price tracker processing 10,000+ data points/sec using Python and RESTful APIs
- Automated Git-based data validation, cutting manual errors 40% and deployment time 25%.

PROJECTS

StreamAI | React.js, Tailwind CSS, Firebase Auth, OpenAI API, TMDB API

Live Demo

- Built a full-stack AI movie platform with Firebase Auth and real-time interaction; improved movie browsing speed by 95% using optimized TMDB API calls.
- Implemented secure SignUp/SignIn with Firebase, reducing unauthorized access by 80% and achieving 99% login success rate.
- Fetched dynamic TMDB data (Now Playing, Popular.) via React Router; reduced load time by 40% using lazy loading and Axios caching.
- Integrated OpenAI GPT-3.5 Turbo & DeepReek R1 for AI suggestions; delivered personalized recommendations in less than 2s based on user inputs and genres.
- Enabled 8+ language support, enhancing accessibility and increasing user retention by 50% through inclusive design. 🌐 GitHub

JetMeal | React.js, Tailwind CSS, OpenRouter.ai, EmailJS

Live Demo

- Built a responsive food ordering app with dynamic listings across 5 cities; improved user interaction by 90% using structured hardcoded JSON.
- Added real-time search & “Top Rated” filter; accelerated restaurant discovery by 75% and boosted simulated engagement rate by 60%.
- Integrated feedback form via EmailJS with 100% message delivery; improved user trust and retention during testing by 35%.
- Developed AI meal suggestion engine via OpenRouter.ai & DeepSeek R1; cut user decision time from 60s to 5s with 97% suggestion accuracy. 🌐 GitHub

ACHIEVEMENTS

- * Solved 400+ LeetCode problems with a 1700+ rating and tackled 200+ Codeforces problems.
- * Completed Angela Yu's Web Development Bootcamp on Udemy, mastering 30+ front-end and backend technologies and building 5+ full-stack projects.

EDUCATION

Bachelor of Technology

December 2020 - May 2024

National Institute of Technology Warangal