Yuvraj Karna

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Technologies

Languages: C, C++, JavaScript, Python, Java, Typescript
Frontend: React.js, Redux, HTML, CSS, Tailwind CSS, Bootstrap
Backend: Node.js, Express.js, RESTful APIs, MongoDB
Misc: Git, Github, Postman, Web Scraping, WebSockets, Vite

Experience

Software Engineer Intern   *Nellore, AP*
iQuadra Information Services   *June 2024 – Present*

- Developed and optimized dynamic **client dashboards** with seamless API integration, **reducing load times by 10%**.
- Refactored and improved the **Redux store**, enhancing state management efficiency and **reducing code-base size by 600+ lines**, Increasing maintainability and performance..
- Enhanced **data fetching efficiency** and user experience by integrating **SWR (stale-while-revalidate)**, boosted caching and reduced API latency.
- **Boosted website performance by 20%** through advanced techniques, including **lazy loading, minimizing re-renders, and leveraging SWR for caching**.
- **Resolved 50+ critical bugs** across multiple products and versions, improving system stability, **reducing downtime by 60%** and ensuring a seamless client experience.

Projects

ExpressIt: Platform for Writing and Engaging with Blogs ↗
- Feature-Rich Blogging Platform – Users can **write, read, and react to blogs, maintain a personalized profile page**, and connect with fellow writers for seamless collaboration.
- Real-Time Interaction & Networking – **Integrated WebSockets-powered chat** enables users to **communicate in real time**, fostering a dynamic blogging community.
- Tech Stack: ReactJs, NodeJs, ExpressJs, WebSockets, MongoDB, tailwindCSS

ReactHookify: NPM package for react hooks ↗
- A lightweight and efficient **NPM package** offering a collection of **custom React hooks** designed to **enhance state management, event handling, and user interactions** in React applications.
- Tech Stack: Javascript, ReactJS, NPM

MapMate: Real-time location-sharing platform. ↗
- Real-Time Group Location Sharing – Users can **create groups and share their live location with all members**.
- Real-Time Updates – Uses **WebSockets for instant location updates**, ensuring **accuracy** and responsiveness.
- Tech Stack: ReactJS, NodeJS, ExpressJs, WebSockets, Google Maps API

Visualizer: Interactive sorting algorithm visualizer. ↗
- A **sorting visualizer** that provides an interactive and intuitive way for users to understand and **visualize sorting algorithms in real-time**, enhancing their learning experience..
- Typescript, ReactJS, ContextApi, TailwindCSS, Vite, Nodejs, ExpressJs, MongoDB

Education

Aditya University   *Sept 2021 – May 2025*
BTech in Computer Science   CGPA: 8.14
Triton International School   *May 2019 – Jun 2021*
Intermediate GPA: 3.43/4.0

Interests & Roles of Responsibility

- **Hosted coding contest**s and **mentored juniors in DSA**.
- Passionate about **exploring new technologies and building projects**.
- Enjoy writing **technical blogs on software development** and **problem-solving**.