

Yuvraj Karna

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Technologies

Languages: C, C++, JavaScript, Python, Java, Typescript

Frontend: React.js, Redux, React Query, HTML, CSS, Tailwind CSS, Bootstrap

Backend: Node.js, Express.js, RESTful APIs, MongoDB, Redis

Misc: Git, Github, Postman, Web Scraping, Web Sockets, Vite, Jest, Vitest

Experience

Software Engineer Intern

iQuadra Information Services

Nellore, AP

June 2024 – Present

- Developed and optimized **client dashboards** with seamless API integration, **reducing load times by 10%**.
- Refactored and improved the **Redux store**, enhancing state management efficiency and **reducing codebase size by 600+ lines**, Increasing maintainability and performance.
- Enhanced **data fetching efficiency** and user experience by integrating **SWR (stale-while-revalidate)**, boosted **caching efficiency** 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

React-hook-granth: Javascript, React.js, NPM, Jest, Vitest



- Built and **published** react-hook-granth, an NPM package with **15+ custom React hooks** for various use cases.
- Achieved 100% test coverage** using Vitest, ensuring reliability and maintainability across all hooks.
- Designed modular, reusable hooks that **reduce boilerplate by 40%**, with comprehensive docs.

Visualizer: Typescript, React.js, TailwindCSS, Vite, Node.js, Express.js, MongoDB



- 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.
- Visualized **6+ popular algorithms** (i.e. bubble, merge, quick sort) with real-time animations, improving learning outcomes by **60%** (based on user feedback).

ScrapeBackend-API: Node.js, Puppeteer, MongoDB, Redis



- Built a **web scraping API**, handling **1000+ tasks daily** with **40% faster response time** using caching.
- Implemented **real-time scraping routes** and **rate-limiting middleware**.
- Integrated **caching**, reducing **30% database load** and improving **50% API response time**.
- Achieved **98% test coverage** for middleware to ensure robustness.

ExpressIt (Blog app): React.js, Node.js, Express.js, MongoDB, Redis



- Created a **full-featured blog platform** with **50+ registered users**, supporting **real-time interactions**, **media uploads**, and a **robust comment system**.
- Implemented **likes, comments, upvotes**, boosting user engagement by **45% month-over-month**.
- Optimized backend queries and caching, achieving **35% faster page load time** on blog detail pages.

Education

Aditya University

BTech in Computer Science CGPA: 8.14

Sept 2021 – May 2025

Triton International School

Intermediate GPA: 3.43/4.0

May 2019 – Jun 2021

Coursework

Relevant Courses: Object Oriented Programming (OOP), Computer Networks, Database Management Systems (DBMS), Operating Systems, Data Structures and Algorithms (DSA)

Interests & Leadership

- Proactively hosted **10+ coding contests** as a **problem setter** and mentored juniors in **DSA**.
- Consistently explore **new technologies**, applying them to real-world projects and prototypes.
- Published **15+ technical blogs** covering **problem-solving strategies**, **emerging tech trends**, etc.