RISHI RAJ

📞 +91 7903510395 ✉ rishi.raj.3794@gmail.com 🌐 Portfolio 🔗 Linkedin ⦾ GitHub

Experience

Hummingbird Web Solutions | Software Development Engineer, L2   **Pune, India**

Tech stack: **Next.js, Next Auth, React.js, Express, Redis, .NET, MySQL, Microsoft Azure**   *July 2024 - Present*

- Rearchitectured a **full-stack application** by integrating Epicor and D3 ERP systems with **Next.js**. Optimized API interactions, reducing the number of consecutive API calls from 9 to 5 which improved page load times from **6.7 seconds to 2.4 seconds**. Enhanced user experience by implementing lazy loading for resource-heavy pages and used **Redis Cache to boost performance**. Integrated **Azure-based role-based access control (RBAC)** to enable secure, department-specific logins.
- Incorporated a 3D model viewer that replaced 100+ images for product visualization with a single Blender model integrated via React Three Fiber. Reduced page size from **250 to 6 MB**, cutting backend load by approximately 98%.
- Led the development of an intranet website from scratch using Microsoft Sharepoint (SPFx), React, TypeScript and GraphQL for seamless database access, achieving 96% reduction in operational costs.
- Automated sign placement on bed material using 2D Bin Packing algorithm (EB-AFIT), achieving **92%+** bed coverage, reducing bed wastage by 40%, and saving $3000 per month while minimizing manual effort and speeding up production.

Xperi | Software Development Engineer, Intern   **Bangalore, India**

Tech stack : **React.js, Redux, Express, MongoDB, MySQL, Python**   *Aug 2023 - July 2024*

- Innovated an cross platform automated deep link verification tool to validate links across databases and mobile apps. Reduced verification time from **3 mins to 7 seconds** and enhanced efficiency by increasing verification speed by 83%.
- Improved reliability by removing non-functional URLs, increasing app performance by 20%, and ensuring data accuracy.
- Identified and fixed over 40+ security vulnerabilities and 80+ server-related bugs, significantly enhancing system stability, optimizing performance, and ensuring robust, scalable functionality for mission-critical, and reliable service delivery.

Technical Skills

Programming Languages	C, C++, Python, Java, JavaScript, TypeScript, SQL, PHP, C, .NET, CSS
Technologies/Frameworks	Next.js, ReactJS, Three.js, NodeJS, Express, Tailwind, REST APIs, GraphQL,
Authentication/UI Tools:	JWT, OAuth 2.0, NextAuth, Zod, Zustand, Redux, ShadCn UI, Material-UI
Developer Tools/Platforms	PostgreSQL, MySQL, MongoDB, Github, Linux, Docker, Redis, Jenkins, Postman
Distributed Systems	AWS, Azure, Kaafka, Multi-tiered Architecture, Multithreading, Concurrency
Academic Coursework	Data Structures Algorithms (DSA), Database Management System (DBMS), Object Oriented Programming (OOP), Operating System (OS), Computer Network (CN)

Projects

Vaahan ↗ | **Git** ↗ | *ReactJS, Redux, NodeJS, ExpressJS, MongoDB, Cloudinary, OAuth 2.0, JWT*

- Developed a comprehensive fullstack vehicle rental platform allowing users to both rent vehicles and offer their vehicles for rent with customizable durations and location-based search feature for efficient vehicle discovery based on proximity.
- Integrated Stripe for secure payments, Cloudinary for efficient image storage, and OAuth for secure user authentication.
- Streamlined user experience with interactive 3D vehicle models and a responsive design using Tailwind CSS.

**WikiWay** ↗ | *ReactJS, NodeJS, ExpressJS, MongoDB*

- Engineered an educational tool that challenges players to navigate between 10+ Wikipedia articles to a reach target article, up-leveled knowledge retention by 30% evidenced by assessments on "Two of These people are Lying" show.
- Integrated leaderboard and friendly challenges between users. allowing players to track their progress across levels, monitor their performance in all matches, thereby enhancing user engagement and promoting friendly competitions.

Achievements

LeetCode: **Knight Badge** holder with a 1856 rating, ranked among **Top 5%** of users globally. Profile ↗

Performer of the Quarter: For ownership and delivering innovative solutions with measurable performance gains.

Hackathon:Led a team to secure **Second Place in Xperi global hackathon**, surpassing over 400+ teams.

Codethon: Winner of the HacknCrack Codethon 2022 ↗ , securing first place in this highly competitive event.

Academics: Dean's List honoree, exemplifying dedication to outstanding academic excellence.

Club Activities: Organized 20+ sessions, hosted contests for the Competitive Programmers Club.

Education

Lovely Professional University   **Jun 2020 – Jun 2024**

Bachelor of Technology in Computer Science   *CGPA - 8.77/10.00*