

RISHI RAJ

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Experience

Software Development Engineer, L2

Hummingbird Websolutions - Pune, India

Tech stack : *Next.js, React.js, Express, Redis, Prisma, MySQL Server*

July 2024 - Present

- Architected a full-stack application by integrating Epicor and D3 ERP with Next.js, reducing API calls from 9 to 5 and improving load times from **6.7 to 2.4 seconds**. Used lazy loading for heavy pages, implemented Azure-based role-based access control for department-specific logins, and optimized performance with Redis Cache and secure authentication.
- Spearheaded the end-to-end development of an intranet website leveraging SPFx, React, and TypeScript for frontend architecture, and GraphQL for seamless Microsoft database integration, achieving a 96% reduction in operational costs.
- 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%.
- 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.

Software Development Engineer, Intern

Xperi - Bangalore, India

Tech stack : *React.js, Express, MongoDB, MySQL, Python*



Bangalore, India

- 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
Technologies/Frameworks	Next.js, ReactJS, Three.js, NodeJS, Express, Tailwind, REST APIs, GraphQL
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, 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.

Leetcode Contest: Secured **1315th** place out of over 27,796 competitors in Leetcode Weekly Contest 398.

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