RAHUL RAY

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Experience

Infosys Ltd   Jun 2022 – Present
Software Developer   *Chandigarh, India*
Verizon Client Work:

- Developed and maintained multiple **mini frontends** using **React, Next.js, and TypeScript**, ensuring seamless integration, high performance, and efficient communication across three frontends.
- Engineered a **global state management solution** using Redux and TypeScript for type-safe, scalable data flow between frontend components and backend services.
- Optimized UI components using **MUI and Tailwind CSS** to enhance performance, improve responsiveness, and ensure a consistent design system across platforms.
- Implemented **unit testing** using Jest and React Testing Library, improving test coverage, reducing regression issues, and ensuring robust application stability.
- Created a **custom React hook** to detect mobile and tablet devices, enhancing responsiveness and optimizing the user experience for different screen sizes.
- Collaborated with cross-functional teams to ensure scalability, maintainability, and adherence to best coding practices, integrating performance optimization techniques and modern frontend architectures.

Infosys Internal Project:

- Developed the **Employee Skill Matrix Dashboard**, enabling skill assessment and tracking with a **React** frontend, **Redux** for state management, **MUI** for UI, and a **Node.js-MySQL** backend.
- Built a **dynamic dashboard** with **pagination, dropdown filters**, and editable **skill matrix** for admins to update skill data and auto-calculate scores.
- Developed interactive **analytics** using MUI Design charts to visualize employee skills, experience, and key metrics.

Projects

Udemy Pro | *NextJS − NodeJS − ExpressJS − MongoDB* | Github | Live
- Developed a full-stack **course-selling platform** using **Next.js (TypeScript)** for the frontend and **Node.js (Express)** for the backend, ensuring a scalable and high-performance architecture.
- Enhanced system security with **JWT-based authentication**, **role-based access control (RBAC)**, and **Nodemailer** for secure email notifications.
- Optimized API performance, reducing response time by **40-60%** through **Redis caching**, **asynchronous processing**, and Web Performance techniques like lazy loading and SSR.
- Designing and developing **microservices** for payment processing and user authentication (in progress), aimed at enhancing scalability and maintainability.
- Built an **admin dashboard** for managing courses, leveraging **Redux** for efficient state management and **MongoDB** for data storage.

Technical Skills

Frontend: React, Next.js, TypeScript, Tailwind CSS, MUI

Backend: Node.js, Express.js, Microservices, REST APIs

Cloud & DevOps: AWS, CI/CD (GitHub Actions), Docker (Containerization & Deployment)

Testing & Optimization: Jest, React Testing Library, Web Performance Optimization

Databases: MongoDB, SQL, Redis

Version Control: Git, GitHub

Achievements

- Received a **Certificate of Achievement** from **Infosys** for exceptional contribution to the **M1 B2C Transformation Program**. | Link

Education

School of Engineering, CUSAT   June 2022
Bachelor of Technology (CGPA: 8.6)   *Kerala, India*