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 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 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.

Projects

Tab Manager – Chrome Extension | *React — Manifest V3 — Chrome Extensions API* | Github
- Designed and built a fully functional tab manager Chrome extension using **React** and **Manifest V3** for a modular, responsive popup interface.
- Implemented search, tab grouping, and keyboard shortcuts (**Ctrl+Y**) using **chrome.tabs**, **chrome.sessions**, and **chrome.windows** APIs.
- Added floating window toggle, search result highlighting, and recent tab recovery using session management and popup overlays.
- Used **React hooks** and local state management for optimized performance and component-based architecture.
- Configured **service worker** background scripts for command handling and dynamic UI rendering via messaging.
- Ensured Chrome Web Store compliance with **minimal permissions**, **host access restrictions**, and privacy-aware practices.

Udemy Pro | *Next.js — Node.js — MongoDB* | Github | Live
- Built a full-stack **course-selling platform** with **Next.js (TypeScript)** frontend and **Node.js (Express)** backend.
- Integrated **JWT auth**, **RBAC**, and secure email notifications via **Nodemailer**.
- Improved performance using **Redis caching**, SSR, and lazy loading techniques.
- Developed **microservices** for payments/auth and an admin dashboard with **Redux** and **MongoDB**.

Technical Skills

Frontend: React, React Native, 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 contribution to the **M1 B2C Transformation Program**. | Link

Education

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