

SOUMYA JOSHI

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Profile

Frontend engineer with 3+ years of experience building scalable, accessible and responsive **React.js & Next.js applications**, **Micro-frontend architectures** and high performance UI systems for large-scale products (300k+ users).

Education

- Bachelor of Technology (B.Tech) in Computer Science and Engineering July 2018 - July 2022
Govt Engineering College Bikaner
 - 8.5 CGPA
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Skills

- Languages: JavaScript, TypeScript
 - Skills: HTML5, CSS3, React.js, GraphQL, Next.js, Redux Toolkit, Micro Frontend
 - Database: MongoDB
 - Tools: AWS, Postman, Git
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Work Experience

Tata Consultancy Services (Frontend Developer - Full-time) July 2022-Current

Project 1: Assignment Creation Platform

- Modernised a large-scale education platform's **Assignment Creation system** for **300,000+ instructors** by migrating legacy systems to a **micro-frontend architecture**, using **single-spa** and a centralised root configuration for cross-application navigation and orchestration.
- Standardised UI/UX across engineering teams by building a **shared style-guide MFE**, reducing feature development time by **~20%**, with reusable components using **Material UI (MUI)** and **Emotion**.
- Integrated front-end MFEs with an **AWS AppSync BFF** via **Apollo Client** and **GraphQL**, collaborating with backend teams to optimise data fetching and implementing **Zod** for schema validation and end-to-end type safety.
- Built **accessible, localised interfaces** using **i18next**, and developed complex interactive features such as **drag-and-drop assessment builders** with **Zustand** and **React Hook Form**.
- Streamlined deployments using **GitLab CI/CD** for automated builds and **AWS S3 artifact hosting**, while maintaining code quality with **Jest**, **React Testing Library**, and **Web pack bundle analysis**.

Project 2: NFC Card Punching System

- Implemented **NFC-based clock-in and clock-out functionality** for devices deployed across a large supermarket retail **stores** and **Argos LFCs**, streamlining attendance management and improving operational efficiency.
 - Developed and launched a **badge mapping self-service portal** enabling colleagues to associate, edit, and remove their **employee ID** with an **NFC badge ID**; successfully deployed in **150 stores**, handling **80,000+ punches daily**.
 - Leveraged **Azure DevOps pipelines** for efficient application deployment and **Microsoft Visual Studio App Center** for building, releasing, and distributing the application.
 - Utilised **Redux**, **Redux Toolkit**, and **React Query** for efficient state management, ensuring a seamless user experience and streamlined data flow across the application
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