

Harsh Mall

Senior Frontend Developer

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Profile

Frontend Developer (5+ years) with expertise in React.js, TypeScript, and Next.js, specializing in building interactive, scalable UI components and performance-optimized web applications. Strong in state management, testing, and responsive design.

Skills

Programming	Web Development	Cloud Services	Additional
TypeScript	ReactJS	AWS(Lambda, EC2)	Webpack
JavaScript	ExpressJS	Docker	Babel
NodeJS	HTML, CSS	GCP(App Engine)	Github
Python (basic)	Jest, NextJS	NoSQL(DynamoDB)	Redux
Java	TailwindCSS	MySQL	Puppeteer

Professional Experience

Freelance Web Developer Dec 2023 – May 2024 | Dublin, Ireland

- Built a movie booking website for a client's college project using React, TypeScript, and NextJS, implementing a responsive UI with TailwindCSS and optimized performance for a smooth user experience.
- Configured a CI/CD pipeline with Jenkins, leveraging Terraform and AWS CloudFormation to provision scalable cloud resources, reducing deployment time by 50% and improving system **availability by 99.9%**

Tata Consultancy Services Nov 2021 – Aug 2022 | Mumbai, India

Senior Frontend Engineer

- Web Feedback System:** Spearheaded the design and development of a responsive feedback system using ReactJS, adhering to SOLID principles, leading to a **20% improvement** in user satisfaction metrics.
- Optimized application performance by implementing useMemo and React.memo, reducing **render times by 30%** and enhancing overall responsiveness.
- Led a team of 3 developers to implement AI features, including hand gesture recognition, **boosting user engagement by 40%**.
- Proposed and executed a robust unit testing framework with Jest, achieving **85% code coverage** and enhancing code reliability through a TDD approach.
- Mentored **3 junior developers** in React best practices, performance optimization, and testing strategies, fostering a culture of code quality and continuous improvement.

Tata Consultancy Services Nov 2019 – Nov 2021 | Mumbai, India

System Frontend Engineer

- FAQ Chatbot:** Designed an engaging FAQ chatbot solution using HTML, CSS, JavaScript (ES6), and React for a bank, resulting in a **30% increase** in customer self-service and engagement.
- Integrated Redux for efficient state management, minimizing unnecessary **re-renders by 40%** and enhancing application performance with optimized data flow
- Optimized API performance adhering to microservice design patterns, reducing **response times by 35%** and securing **98% fault tolerance**.

- **Interactive Voice Response (IVR) Bot:** Helped a customer build a cost-saving FAQ IVR bot solution for a bank using Google Dialogflow's REST API and App Engine. Automated customer service processes, resulting in a **20% cost reduction**.
- Facilitated to successful sprint deliveries in an Agile (Scrum) environment, participating in daily stand-ups and collaborating with the client team to resolve post-deployment issues, resulting in a **25% improvement** in user experience.

Tata Consultancy Services

Nov 2018 – Nov 2019 | Mumbai, India

Assistant Frontend Engineer

- **Training and Best Practices:** Conducted over **10 training sessions for 6 team members** on business functionality and coding best practices, emphasizing methodologies like Behaviour-Driven Development (BDD) and SOLID principles.
- **3D Holographic Solution:** Integrated a Node.js (Express)-based 3D holographic virtual mannequin solution, showcased at a prominent event in London.
- **Virtual Trainer Application:** Engineered a browser-based virtual trainer application for the HR team using Amazon Sumerian, Google Dialogflow, and web technologies (HTML, CSS, and JavaScript).
- Streamlined the induction process for 30 new trainees.

Education

National College of Ireland

Sep 2022 – Nov 2023 | Dublin, Ireland

Masters in Cloud Computing

Thesis: Improving topology-aware scheduling in Kubernetes using metaheuristic approaches.

- Description: Compared three metaheuristic algorithms for topology-aware scheduling in Kubernetes, evaluating performance based on scheduling efficiency, resource utilization, and workload balancing to optimize cluster operations

Skills: Docker, Kubernetes, Jenkins, Java, AWS S3, AWS Lambda functions

- Project 2: Developed a medicine ordering website in cloud using Express.js within an MVC architecture along with using microservice serverless functions for API integration and implementing core DevOps (CI/CD) principles for efficient deployment and maintenance.

Skills: React, HTML, CSS, JavaScript, NodeJS, Redux, GitHub, Webpack, AWS CloudFormation, Jenkins

- Project 3: Built a dynamic customer feedback web application (CRUD) using React and TypeScript on AWS Elastic Beanstalk to showcase cloud capabilities. Integrated the app with microservices for enhanced functionality.

Skills: ReactJS, TypeScript, HTML, CSS, JavaScript, NodeJS, Jenkins, Git, Jest, AWS ElasticBeanstalk

Mumbai University

Aug 2014 – Nov 2018 | Mumbai, India

Bachelors in Electronics and Telecommunications

Awards

Tata Innovista Award

Aug 2023

Tata Consultancy Services

Secured 1st place for creating an accessible web solution for the elderly.

Spot Team Award

Apr 2022

Tata Consultancy Services

Demonstrated excellence in learning and implementation