

Rahul Singh

Fullstack Engineer with a focus on
NodeJS/ReactJS and microservice architecture

Pune, India
Born 19/12/1992

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TECHNICAL SKILLS

JavaScript (7) | TypeScript (5) | NodeJS (7) | ExpressJS (6) | ReactJS (5) | Redux (5) | Microservices (6) | Rest APIs (7) | GraphQL (3) | MySQL (5) | MongoDB (4) | Redis (3) | AWS (4) | Kafka (3) | CI/CD (4) | Docker (3) | Kubernetes (3) | Git (6) | Mocha (4) | Chai (3) | Jest (4) | HTML (6) | CSS (6) | Micro-Frontends (3) | Bootstrap (6) | Material UI (4) | Antd (3) | Agile/Scrum (6)

WORK EXPERIENCE

02/2021 – Today

Senior Software Engineer

Bridgenext, Pune, India

Project: [Mastery](#) - MasterMind is a comprehensive cloud-based transportation management system (TMS) built to eliminate complexity, provide unlimited connectivity, and automate manual processes. MasterMind provides carriers, logistics service providers, and large shippers the ability to scale and thrive in complexity..

- Working in a Scrum team of 6, developing the backend Microservice architecture using TypeScript, NodeJS, MongoDB & AWS.
- Designing and developing 40+ RESTful APIs for seamless communication between the front-end and back-end.
- Building responsive user interfaces and interactive components using ReactJS. Implementing authentication and authorization mechanisms for secure user access. Made 100+ custom components using ReactJS, which increased the usability of the platform by 40%.
- Deployed the platform on Azure using Docker & Kubernetes.
- Maintained code quality by conducting regular code reviews and implementing code optimizations, resulting in a 50% reduction in the average page load time of vendor applications
- Created & integrated Micro-Frontend application into its parent application using ModuleFederationPlugin of Webpack.

Technologies used: JavaScript | TypeScript | NestJS | NodeJS | ReactJS | GraphQL | Kafka | MSSQL | PostgreSQL | Azure | Docker | Github Actions | Cypress.

Project: [Zillow](#) - leading US-based real estate marketplace with millions of users.

- Worked in a Scrum team of 12 and built the complete server-side logic using TypeScript, NodeJS, MySQL and AWS.
- Developed 10+ Microservices with 40+ Rest APIs handling millions of requests. Developing CI/CD pipelines using GitHub Actions which improved the performance and architecture of the platform by 30%.
- Participated in the architectural decisions of the application, including selecting the appropriate design patterns and frameworks.
- Developed responsive user interfaces and interactive components using ReactJS integrating front-end components with back-end APIs and services. Designed and developed a plugin using MFE.
- Wrote extensive unit testing cases Jest with code coverage of 90%

Technologies used: JavaScript | TypeScript | NodeJS | ReactJS | MySQL | AWS | Docker | Kubernetes.

01/2019 – 02/2021

Software Engineer

SmartSense Consulting Solutions, Gandhinagar, India

Project: [Certif-ID](#) - German-based credentialing and HR platform used by international companies such as Siemens or TÜVRheinland.

- Worked in a Scrum team of 5 and revamped the complete architecture from a monolithic to a Microservices architecture using JavaScript, TypeScript, NodeJS, Kafka & AWS.
- Built 7 new Microservices, maintained communication protocols between them, such as RESTful APIs or message queues and deployed them on dev and staging servers using AWS.
- Implemented and Implemented Spanish/English language support to increase customer coverage by 30%.
- Created 3-4 GraphQL POCs using different libraries for the project.
- Collaborated with cross-functional teams, including architects, product owners, and front-end developers, to define service boundaries and APIs.

Technologies used: JavaScript | TypeScript | NodeJS | Mocha | Chai | MySQL | Microservices | AWS S3 | AWS EC2

12/2016 – 01/2019

Backend Developer

I-Link Infosoft Consultants, Ahmedabad, India

Project: [MTPO](#) - is a US cloud-based tax platform that helps 200k+ users manage their tax declaration. Worked in a Scrum Team of 10, building the complete backend and server side of the platform using JavaScript & NodeJS, Kafka.

- Developed 12 scalable and highly available Microservices breaking down the monolithic applications into smaller, decoupled Microservices using JavaScript, NodeJS, and Kafka.
- Collaborated with cross-functional teams, including architects, product owners, and front-end developers, to define service boundaries and APIs.
- Migrated data from one datacenter to another using Kafka mirroring.

Technologies used: JavaScript | NodeJS | Kafka | VM | Couchbase | MySQL

EDUCATION

07/2014 – 06/2016

Masters of Computer Application, Computers
Gujarat Technological University, Ahmedabad, India

06/2010 – 05/2013

Bachelor of Computer Application, Computers
Sardar Patel University, Anand, India

LANGUAGE SKILLS

English | Hindi (Mother tongue)

HOBBIES

Traveling | Exploring things | Cricket