

Subham Saha

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EDUCATION

National Institute of Technology (NIT)

Agartala, India

Bachelor of Technology (B.Tech degree) in Computer Science and Engineering (CSE)

July 2015 – May 2019

TECHNICAL SKILLS AND EXPERTISE

Languages and Skills: HTML, CSS, Tailwind, Bootstrap, NextJS, NestJS, Node.js, Express.js, ReactJS, JavaScript, TypeScript, React Query, React Hook Form , Zod, TRPC, Chakra UI, React Material UI

Libraries and Tools: Jenkins, GIT Actions, Docker, StoryBook, Jest, React Testing Library, Husky, Lint-Stage, AWS CDK, AWS Fargate, AWS SQS, Redis, Clevertap, Sentry, DataDog, Newrelic, Prisma, PostgreSQL

WORK EXPERIENCE

Travelopia

Hybrid - Bangalore, India

Product Engineer (PE)

16th Oct 2023 - Present

- Developed the 'myTCS' and 'fourSeasons' platform's front-end (post reservation) ensuring consistent component structure across diverse brand themes using semantic tokens and extendTheme by Chakra UI. Enhanced platform capabilities significantly by seamlessly integrating static data fetching from a CMS tool (Sanity).
- Improved app performance from 10 seconds to 500 milliseconds with a cache layer, enhancing user experience. Leveraged SQS for faster write operations and asynchronous data syncing, optimizing performance further.
- Batching HTTP requests with TRPC and Zod types ensures type safety and boosts reusability. AWS Step Functions synchronize payment flow processes, invoking lambda functions at each step.
- Developing custom React components with individualized designs using Chakra UI's defineStyle and semantics to maintain a similar user experience for all themes. Utilizing Storybook for thorough component testing.

MediBuddy

Bangalore, India

Software Development Engineer II (SDE 2)

30th July 2020 - 16th October 2023

- Implemented alert system with Slack alerts and AWS Monitoring for micro-services. Revamped services with Replica DB, caching, and queue-based approach for enhanced performance. Migration to AWS Secret Manager.
- Led the complete UI team to revamp the Talk to Doctor App and successfully refactored the product by restructuring the code. using React.js (custom components, hooks etc) for improved efficiency and organization.
- Accomplished seamless integration of communication between Doctor-Patient Consultations. Generates customized Medical Examination Reports (MER) for different insurers, shareable via API or SFTP.
- Successfully built the end-to-end Phlebo front-end app (React.js), integrating login, order flow, Camera, and Barcode scanner features. The app handles over 3000 orders daily from all over Metro Cities.
- Developed an automated Auto-dialer system that delivers pre-configured business logic-based calls to customers, effectively eliminating dependencies on OPS personnel - Handling more than 2400 cases per day. (Node.js)
- Implemented real-time synchronization (MIS SYNC) for efficient case management across contracts, catering to OPS. Handles multi-source cases, ensures smooth Read and Write Operations via DB replicas - 70K Requests/Day.

BuildSupply

Gurugram, India

Analyst - Software Engineer

9th June 2019 - 26th June 2020

- Designed and developed the Material Manager, an end-to-end construction-focused inventory management solution using Angular. This platform enables customers to efficiently manage project procurement and provides real-time tracking of material inventory across multiple projects. - 1000+ Cases Handling daily.

IIT Kharagpur

Kharagpur, India

Summer Intern

8th May 2018 - 22nd June 2018

- Essential Drug Information System - Developed a comprehensive doctor dashboard with a medicine search engine for seamless prescription, including the ability to add new medicines to the database.

PROJECTS AND RECOGNITIONS

- **Pregnancy Tool - MediBuddy**, 1st Runners Up - Feature Factory Hackathon [LinkedIn](#)
- **Star Of the Month and Quaterly Achievers Award** . [LinkedIn](#)
- **Second Runners Up for Labs UI Hackathon**. [LinkedIn](#)
- **Problem-Solving Certificate by HackerRank**. [Certificate](#)
- **Dice Betting Game**. [Sandbox](#)

PUBLICATIONS

- Designing a Mobile-based Non-Verbal Classroom Interaction System [Publication](#)
- BYOD Supported Multimodal Classroom Interaction [Publication](#)