

Raghav Bansal

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EDUCATION

INDIAN INSTITUTE OF INFORMATION TECHNOLOGY UNA

B.TECH COMPUTER SCIENCE AND ENGINEERING

July 2018 - May 2022 | Cum. GPA: 7.66/10.0

EXPERIENCE

CLEARTRIP | UI ENGINEER

MAY 2023 - Present | Bangalore, India

- I led the integration of **Google Maps** into our application to display nearby Points of Interest (POIs) around a hotel. To optimize costs, I implemented a solution to call **Google's APIs only once per session**, reducing unnecessary API calls and improving overall efficiency.
- Revamp the whole hotel's web app, utilizing Next.js framework to incorporate a new design and migrate it to **server-driven UI**.
- **Enhanced the web vitals** for Cleartrip's homepage and SEO pages, achieving a seamless transition to optimal performance in the **green zone**. Brought **LCP** for hotels homepage **from 3 to 1.2**. and **INP** **from 850 to 300**;
- I developed an **in-house calendar component**, significantly improving its responsiveness by reducing the user interaction delay **from 1-2 seconds to just 100-200 milliseconds**.
- I collaborated with team members to optimize animations, **shifting the processing workload from the CPU to the GPU**, resulting in better performance and smoother experiences.
- Worked on implementing **service worker** for **enhancing web view experience within the app**. Also, implemented the **partytown** to improve third party scripts blocking time.

AMAZON DEVELOPMENT CENTRE | SOFTWARE DEVELOPMENT ENGINEER

July 2022 - March 2023 | Bangalore, India

- Worked on creating the **High Level Design** for **Membership Action Portal** tool for handling **1M+ batch customers requests** for membership actions by using **AWS resources** like **Lambda, SQS, Glue/ETL Jobs, Step functions, Event bridge**.
- Worked on development of **Membership Action Portal** tool which can be used to **perform membership actions** i.e sign up, cancel etc. the **prime memberships in batch**. On launch of the tool, it was used multiple times to sign up **100K+ customers** in various countries.
- Worked on adding **accounting validations** in **Quantom** tool which is used to automate the testing of accounting UAT environment. Due to this tool, QA team was able to **signoff the accounting uat testing** within **1-2 days** which used to take multiple weeks time.
- Published **internal npm package** which was having useful **common custom react hooks and react higher order components**.

GROWW, INDIA | SOFTWARE DEVELOPMENT ENGINEERING INTERN

May 2021 - May 2022 | WFH

- Worked on **revamping various critical flows** like **Mutual Funds Product Page**, **Track External Funds Page** for tracking external funds by integrating **Google OAuth 2.0, Mutual Funds Order Card**, etc.
- **Decreased customer queries by 90%** on the user investments page in case of API failures by **building a mechanism of showing stale data** to a user.
- **Decreased API calls** on Mutual funds Product Pages from **N calls to 1 call** by integrating **session-level caching** with **React-Redux**.
- Created a **backend service** in **node.js** and **Puppeteer framework** for automating uploading and downloading files between the BSE's website and Groww's **Google Cloud Storage Bucket**.

ANTWAK | WEB DEVELOPMENT INTERN

Nov 2020 - Apr 2021 | WFH

- Integrated **React-Redux** and different React hooks for global state management and **GraphQL** queries with apollo client.
- Built a responsive react player with like, share, swipe up/down and playback speed functionalities.

TECHNICAL STRENGTHS

React.JS, Next.JS, Node.JS, Webpack, Redux, Workers, Amazon Web Services (AWS), Java, C/C++, JavaScript, TypeScript, Spring Boot, Dagger, HTML/CSS