

Ashutosh Singh

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[GitHub](#) | [LinkedIn](#) | [Leetcode](#) | [CodeChef](#)
| [Codeforces](#)

EXPERIENCE

Regulo.ai | Software Development Engineer | May 2024 – Present

- Implemented searching of vector embeddings using hashable format.
- Refactored the face search functionality in UI using antd framework in Next.js.
- Architected and Optimised the face search and name search API for accurate results.

Juspay | Software Development Engineer | August 2022 - May 2024

- Developed the feature that allows merchants to configure payment options based on amount in payment page.
- Refactored the **flows** of wallets, paylater and cardless emi wallets such that new wallet can be onboarded with **zero code change** in payment page.
- Responsible for designing and implementing the System Architecture and setting up initial flows for **Jusbiz** (B2B corporate payments portal)
- Integrated the core payout flow of issuing and redeeming virtual credit card in **Jusbiz**.
- Developed a robust **user management system** with **Role-Based Access Control**, utilising a **Graph data structure** in functional programming language to enable merchants to define hierarchical access levels and manage user roles efficiently.

BlueStacks | Software Development Engineer Internship | March 2022 – August 2022

- Responsible for migration and optimisation of BlueStacks website from PHP to Next.js that improves the overall lighthouse rating or performance by **15 - 20 %**.
- Created a configuration system in games campaign microservice that helps to show game campaign's as per that configuration set up in dashboard.
- Build API's that performs **scrapping** and verifies the data as per test cases using **Puppeteer**.

DarkHorse | Software Engineer Intern | October 2021 – March 2022

- Optimised the Global Leaderboard MicroService by implementing Redis, Hash Map to fetch and filter data in BigO ($N(\log N)$) time.
- Build API that supports Benchmarking Functionality, and compare Athletes on the basis of their Metrics and Integrated it in UI using **Chart Js**.
- Developed the multi part uploader for uploading games video that improves time of uploading using **AWS S3**.

Open Source Development / Projects

[Google Summer of Code - Rocket.Chat](#) | Open Source Developer

- Smartly injected an open-source Nuxt.js Vue application into the Rocket.Chat React environment
- Architected the Rocket.Chat DB for LLM prompt editor to store and manage user conversation data, including history and LLM models.

[Chatzzz](#) | Chatting Web Application

- Chatzzz is a secure chatting web application where user can create public or private rooms to chatting group.
- The chat rooms are in vanish mode that remove chats instant once the user is not in the room.

EDUCATION

Madhav Institute of Technology and Science | Bachelors of Technology – Information Technology
Gwalior, India | August 2019 - May 2023 | GPA: 8.2

SKILLS

- Programming Languages : C++, C, JavaScript, Python, SQL, Typescript, Haskell, Purescript
- Libraries / Frameworks : React Js, Next Js, Fast API, RestAPI, Node Js, ExpressJs, Redux
- Tools / Platform : Docker, Amazon Web Services (AWS), MongoDB, Redis.

HONORS & AWARD

- **Rating** : Highest Rating of **2050 (5 Star)** and **1594 (Rated Specialist)** and in Codechef and Codeforces respectively.
- **Ranking** : Achieved global rank **51 out of 4200+** Codechef starters 19 (div 2) and **136 out of 4500+ in Codechef December lunchtime (div 2)**.
- **Ranking** : Achieved global rank **1042 out of 15000** participants in Google Kick Start Round A 2022.
- **Solving** : Solved more than **1600+ problems** on Codechef, Codeforces, Leetcode and other coding platforms.