

Nikhil Kadiyan

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Portfolio Website

nikhilcad

nikhilcad

EDUCATION

National Institute of Technology Delhi
Bachelor of Technology (CGPA: 8.44)

2020-24

EXPERIENCE

ThoughtSpot | Member of Technical Staff 2 | Java, Golang, React, Typescript, GraphQL Jul '24 - Present | Hyderabad

- Achieved a **90% reduction in homepage load time** by migrating the internal Cassandra impressions database to a new schema, replacing per-view lookups with a unified table storing total views per user.
- Integrated **org awareness** to the trending table of **Cassandra** database by creating a new table with altered schema, allowing each isolated org in the instance to have separate trending objects.
- Planned and carried out **data migration** of the trending **Cassandra** database after the schema change through a background script safely migrating all the data and then switching to the newer table after completion.
- Addressed a **security vulnerability** in the share API by implementing a Redis-based rate limiter after penetration testing exposed a missing rate limit, effectively controlling API request rates and mitigating abuse risks.
- Diagnosed and patched** a Mixpanel overtracking issue ahead of a renewal, **reducing test event volume by 98.5% (20M to 300K)** and **saving \$30K**.
- Added frontend support for **monitor alerts in Slack**, enabling users to receive data updates directly in Slack without opening the BI tool, increasing notification click rate by 20%.

ThoughtSpot | Software Engineering Intern | React, Typescript, Playwright, Jest Jan '24 - Jun '24 | Hyderabad

- Migrated schema viewer from Angular to React by creating new React components and making GraphQL calls to the backend. Also rectified design issues in the legacy UI during migration.
- Worked on **Filter and Sort features** for worksheet tables and columns along with one team member. Collaborated with the backend team to update the API to include **tags, authors, and database info** for sorting.
- Rolled out Knowledge Cards that show users information about a selected table including database, schema, and author. Made API calls to the backend.
- Resolved **critical customer-reported bugs**, with an average turnaround of 1-2 days to merge changes into master.

ThoughtSpot | Software Engineering Intern | React, Typescript, Jest Jun '23 - Jul '23 | Hyderabad

- Streamlined **50+ accessibility improvements** across the product's website.
- Worked with **React.js** and **Typescript** to ensure accessibility by **keyboard and screen readers**, especially for blind and near-sighted users.
- Collaborated with the team to ensure that the website complied with **WAI-ARIA** and **WCAG** international standards, achieving **Level A** accessibility certification.

PROJECT HIGHLIGHTS

Real Time Chatroom Application [Code+Screenshots]

- Implemented a Real Time Chatroom with **Next.js** for seamless server-side rendering, and **Clerk** for authentication.
- Integrated **UploadThing** for user-uploaded images/videos to be sent in channels, which uses **AWS S3** under the hood, with file storage up to 2GB.
- Ensured effective **CRUD** operations and server communication using the promise-based HTTP library **Axios**.
- Facilitated real-time bidirectional communication across platforms using **SocketIO**.

Golang News Reader (UI + Terminal) [Code]

- Developed a full-stack RSS reader with a **Go backend**, **Preact frontend**, and an interactive **Terminal User Interface (TUI)**.
- Implemented a **SQLite-based caching system** and a **RESTful API** in Go for efficient feed management and content delivery.
- Supports full article content extraction, TTS, and integrated podcast media enclosure.
- Designed a **responsive UI** (web + terminal) with keyboard/mouse navigation, feed grouping, and persistent read/unread tracking.

SKILLS

- Languages:** Java, Go, TypeScript, Python, C++, SQL
- Frameworks & Libraries:** React, Next.js, Node.js, Flask, Jest, Playwright, Prisma, Pandas
- Tools & Platforms:** Git, Firebase, Vercel, Heroku, VSCode, IntelliJ, LaTeX, Godot

ACHIEVEMENTS

- Solved **600+** Data Structures and Algorithm problems on **Leetcode** [Link], rated **1764** in contests.
- Achieved a highest rating of **1736 (Expert)** in **Codeforces** [Link].
- Published paper **Study and Analysis of Plant Disease Identification Models** for ICIC3S Conference, available on [IEEE Xplore] DOI: 10.1109/ICIC3S61846.2024.10603350.