

CHETAN GUPTA

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Education

Modern Institute of Technology and Research Center (Btech, CSE)

CGPA: 8.10

June 2020 – June 2024

Skills

Javascript and Typescript | Java | NextJS | NodeJS and ExpressJS | ReactJS | ReduxJS and RecoilJS | MongoDB | MySQL and PostgreSQL | Docker | Kubernetes | Git and Github | AWS | TailwindCSS | Prisma ORM | CI & CD | Kafka | Redis

Work Experience

Cantilever Labs

March 2024 - January 2025

Software Engineer

- **Developed and implemented cron jobs** for **automated** email notifications, resulting in a **90% improvement** in user response rates. Designed and deployed **Lambda functions** to automate **event-driven tasks** using **SNS** and **SQS**, such as dynamically generating and updating user-specific interview questions, based on resume updates, scheduling interviews, and creating google meet events **enhancing system efficiency by 40%**.
- **Implemented GitHub Actions** to **automate** test execution, **increasing testing efficiency** by **80%**. **Developed** a robust reporter service, facilitating detailed result auditing and **improving** overall application **integrity** and **transparency**.
- **Developed an Interview Playbook Module** with intelligence, enabling the **virtual assistant** to ask relevant questions and seamlessly transition between topics, leveraging **generative AI** to create personalized questions and implemented AI-driven questions generation; contributed to a **25% rise in overall platform retention**.
- Lead the migration of legacy **ReactJS** applications to **NextJS**, enhancing performance with **Redis** and **LRU caching**. **Reduced API response times by 50%** and **improved website SEO**, contributing to higher Google search rankings.
- **Orchestrated the deployment** of **cloud-native solutions** using **AWS services** such as **Lambda**, **ECS**, **S3**, and **CloudFront**, **reducing operational costs by 30%** while **scaling infrastructure to support 2x traffic**.
- **Designed and implemented a database schema** for **high availability** and **low-latency queries**, leading to a **35% reduction** in read/write latency across critical operations.

Projects

daily.schedule

January 2025 - Present

GitHub :- github.com/chetanguptaa/daily.schedule

- **Designed and developed** a robust **scheduling platform** featuring integrated **video conferencing**, seamless **appointment booking**, **real-time virtual meetings**, and **calendar synchronization**. Built using **React.js**, **TypeScript**, **Tailwind CSS**, **Nest.js**, **TanStack Query**, **PostgreSQL**, **Prisma ORM**, and **Turborepo** for **build system orchestrator**.
- **Integrated Mediasoup** for **low-latency**, secure **WebRTC-based video calls**, supporting **group sessions**, and **screen sharing**.
- **Implemented calendar integrations** with **Google** and **Outlook APIs**, along with **real-time booking conflict resolution**.

CVD

September 2024 - Present

GitHub :- github.com/chetanguptaa/cvd

- Developed **WebSocket** servers to handle **Real-Time Communication** between multiple users applying the **Singleton Design Pattern** and **Object Oriented Programming Principles** to ensure **scalable** and **maintainable** code structure.
- **Optimized** performance by integrating **Redis Pub/Sub** for **efficient message passing** between **WebSocket** servers, and utilized **Redis queues** to **offload** and **handle database requests** via a **background worker**, ensuring **lag-free gameplay**.
- **Implemented an in-memory database** for the game state, **reducing latency by 90%**, while using **PostgreSQL** for persistent storage of user data.

ShowMeTheMoney

January 2024 - February 2024

GitHub :- github.com/chetanguptaa/showmethemoney

URL :- smtm.chetangupta.live

- **Designed and Developed** a feature-rich financial management application using **Next.js 13**, **TypeScript**, and **Tailwind CSS**.
- Application allows users to **Sign in** through **Google authentication with Next Auth**, create accounts with an initial balance, send money, and request money from other users via the amount and **notifications** enabling users to perform secure financial transactions.
- Implemented **debounced search** and a concise transaction history display, **optimizing user interaction and experience**. added **Postgres transactions** with **Prisma ORM**, ensuring data integrity by **rolling back transactions** in case of failures.

Technical Achievements and Courses

- Top 3% of Coders on [Leetcode](https://leetcode.com).
- 100 x devs 0-100 Full Stack Web Developer (Certification Id: MEXUAEG4).