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 - Present**
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

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** :- showmethemoneyy.vercel.app

- **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.

Portfolio   **August 2023 - Present**
GitHub :- github.com/chetanguptaa/portfolio   **URL** :- chetangupta.vercel.app

- **Designed** and **developed** a visually stunning and user-friendly personal portfolio website using **Next.js** for **server-side rendering** for achieving lightning-fast page load times and **boosting SEO performance, TypeScript** for **better code quality, Framer Motion** for **beautiful animations,** and **Sanity.io (CMS)** for blogs, resulting in a **50% increase** in **user engagement**.
- Utilized **Turbo Repo** as a **build system orchestrator** and **pnpm workspaces** for **superior code quality and file structure**.
- Implemented a firm **contact form** using the **Resend email service**, enhancing professional networking opportunities by **40%**.

Technical Achievements and Courses

- Top 3% of Coders on **Leetcode**.
- 100 x devs 0-100 Full Stack Web Developer (Certification Id: MEXUAEG4).