

CHETAN GUPTA

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Education

Bachelor of Technology (Computer Science and Engineering)
Modern Institute of Technology and Research Center

June 2020 – June 2024
CGPA: 8.10

Skills

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

Work Experience

Cantilever Labs

Mar 2024 - Present

Software Engineer

- **Developed and implemented cron jobs** for **automated** email notifications, resulting in a **60% improvement** in user response rates. Utilized **SNS** to enable efficient **asynchronous backend communication**. Additionally, created **Lambda functions** to handle **event-driven tasks**, such as sending emails upon event trigger, **improving** process automation by **40%**.
- Researched and developed a **highly efficient PDF parser** that outperforms conventional parsers by converting PDFs to images using **web workers**, significantly **increasing accuracy** and resulting in a **50% improvement** in **efficiency**.
- **Implemented GitHub Actions** to **automate** test execution, **increasing white-box testing efficiency** by **80%**. **Developed** a robust reporter service, facilitating detailed result auditing and **improving** overall application **integrity** and **transparency**.
- Played a key role in the **development** and **deployment** of an **NPM package**, streamlining the package management process and **slashing development time by 50%**. This significantly improved team **productivity**, **collaboration** and **code reuse**.
- Engineered **dynamic** and **responsive user interfaces** using **React** and **Redux**, **enhancing user experience** and ensuring seamless **state management** across the application. Delivered a **30% increase** in satisfaction and engagement metrics.

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 30%**, 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**, 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](https://leetcode.com).
- 100 x devs 0-100 Full Stack Web Developer (Certification Id: MEXUAEG4).