Vyas Giri

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Education

Indian Institute of Technology (B.H.U.) Varanasi　　　　　　　　　　　**Oct 2022 – Ongoing**
Integrated Dual Degree

Technical Skills

Languages: JavaScript, Typescript, Python, Golang, PHP, Java, C
Frameworks and Tools: React, Nextjs, Django, Node.js, Express.js, Postman, Git, GitHub, Figma
Frontend: TailwindCSS, Shadcn UI, Material UI, Framer-motion
Databases & Web Technologies : PostgreSQL, MongoDB, Firestore, Google Cloud, Docker, Redis, Firebase

Work Experience

Pathnovo Solutions　　　　　　　　　　　　　　　　　　　　　　　**May 2024 – Jul 2024**
Web Development Intern　　　　　　　　　　　　　　　　　　　　　　*Varanasi (Hybrid)*
- Developed **5+** progressive web applications using **Next.js**, **React**, **Firebase**, and **MongoDB**, improving load speeds by up to **60%**, which increased user engagement by 30% during peak traffic.
- Engineered responsive, user-centric interfaces with **Material UI** and **Framer Motion**, enhancing usability and visual appeal for diverse audiences.
- Optimized data retrieval by making API requests through **Axios** and reducing latency by 40% with **Redis** caching.
- Constructed backend APIs using **Node.js** and implemented **Regex** for precise form input validation, reducing user input errors by 25%.
- **Technical Exposure:** Figma, Redis, GitHub workflows.

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Web Development Intern　　　　　　　　　　　　　　　　　　　　　　*Varanasi (Remote)*
- Created an **SEO**-optimized, responsive application with **Next.js**, improving search ranking and boosting organic site traffic by 20% within the first month.
- Crafted an intuitive interface with **Tailwind CSS** and **Framer Motion**, facilitating over 200 feedback sessions that guided iterative design improvements and increased user satisfaction.
- Administered **MySQL** database via **phpMyAdmin**, ensuring efficient data management and integrity across 10,000+ records.
- Deployed the MySQL server on **Azure**, providing scalable and secure database hosting, which enhanced application uptime by 15%.
- **Technical Exposure:** Azure, phpMyAdmin, Laravel.

Projects

Dagoba: A Graph Database　　　　　　　　　　　　　　　　　　　　　**Source Code**
- Built an in-memory graph database in JavaScript with lazy evaluation and a chainable query API.
- Developed an extensible pipetype system with 10 query operations with transformers for query optimizations.
- Implemented persistence with file-system based and localStorage and an interactive Node.js REPL for real-time database querying. Created alias system for custom query patterns.
- Achieved 100% test coverage with Jest(60 tests), configured Babel transpilation for ES6 modules.

Position Of Responsibility

Training and Placement Cell　　　　　　　　　　　　　　　　　　　**Jun 2024 – present**
Tech Team Representative　　　　　　　　　　　　　　　　　　　　　*IIT (B.H.U.)*
- Managing and optimizing the backend (**Golang**) and frontend (**Next.js** and **TypeScript**) for IIT (B.H.U.)'s Training and Placement Cell portals, enhancing system reliability and reducing downtime by 20%.
- Overseeing portal deployments on **Google Cloud**, achieving improved accessibility and load handling during peak usage periods.

Technex'24　　　　　　　　　　　　　　　　　　　　　　　　　　**Sep 2023 – Mar 2024**
Tech Team Member　　　　　　　　　　　　　　　　　　　　　　　　*IIT (B.H.U.)*
- Developed and launched the official Technex'24 website and a Campus Ambassador Portal, supporting event operations and facilitating ambassador engagement with a user-friendly design.
- Implemented a responsive frontend using **Next.js**, **Tailwind CSS**, and **Shadcn UI**, along with a scalable **Django** backend, resulting in a 40% increase in site traffic during the event period.

Honours And Achievements

- Awarded **1st place** in the **ImaGenAI**: Prompt Engineering contest by **IIT Delhi**, competing against 800+ teams.
- Secured **2nd place** in **SynthAI**, an AI/ML for bioinformatics competition hosted by **IIT Delhi**, competing against over 200 teams