Manish Gupta

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EDUCATION

Himgiri Zee University -   **Dehradun, India (2019 – 2023)**
Bachelor Of Technology (Computer Science)-   **8/10 CGPA**

TECHNICAL SKILLS

Programming Languages: JavaScript, Golang, C++, NodeJS, TypeScript
Libraries and Tools: Microservices, RabbitMQ, React.js, Express.js, Git, Postman, CLI, Next.js, Redux-Toolkit, Redux, Reddis.
Database: MongoDB, PostgreSQL

WORK EXPERIENCE

Associate Software Developer   09-2024-Present
Pearl Organization – Dehradun, India

- Designed and built **scalable backend services** from the ground up using **Node.js**, **Express.js**, and **MongoDB**, working with both **monolithic** and **microservices** architectures to meet diverse project needs—resulting in a **30% boost** in performance and development agility.
- Engineered **event-driven microservices** using **RabbitMQ** for inter-service communication, enhancing system reliability, enabling asynchronous task processing, and supporting better fault isolation in production environments.
- Integrated **real-time chat** using **WebSocket's** and implemented a **notification system** with **Server-Sent Events (SSE)** and **Web Push**, alongside secure **payment handling and verification workflows**, leading to **35% faster alert delivery** and seamless transaction experiences for users.
- Developed feature-rich UI components using **React.js**, **Vite**, and **Redux Toolkit**, enabling efficient global state management and reducing front-end bugs by **40%** across modules.

Chessian Consultancy

Web Developer – Remote   06/2023-08/2023
- Worked on the LMS of company.

Software Developer Intern
Greenie Web – Remote, Singapore   01/2023- 05/2023
- **Enhanced application performance by 25%** through strategic optimizations, showcasing strong problem-solving and analytical skills.

PROJECTS

CODEMENTEE - (MERN, Javascript, Next.js, Microservices, Rabbit MQ), Link

- **Led backend architecture and service design** for a mentorship platform using **Node.js**, **Express.js**, and **microservices**, focusing on modular, maintainable code and scalable infrastructure.
- **Implemented microservices architecture** with **RabbitMQ** to support **event-driven flows** like session booking notifications and mentor availability updates—enhancing service decoupling and operational flexibility.
- Built a dedicated **authentication service using PostgreSQL** for secure, relational user data management and integrated **JWT-based authentication flows** for multi-service access control, while leveraging **MongoDB in other services** where flexible schema design and horizontal scalability were critical for handling dynamic content and high-growth scenarios.
- Integrated **Stripe** for secure payments with backend **payment verification**, and connected mentors' availability via **Calendly**, capturing and storing **event data through webhooks** to automate scheduling and session tracking.

PERSON IDENTIFICATION APP - (Next.js, JavaScript, TensorFlow)

- **Engineered a real-time Person Recognition App** using TensorFlow and the COCO-SSD model, enabling accurate differentiation between humans and other objects with 95% precision.
- **Integrated live update functionality**, allowing continuous monitoring and recognition, efficiently processing video streams with minimal latency, supporting over 500 concurrent sessions.