KARAN BHATT

Full-Stack Developer | MERN Stack & Microservices Specialist

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Professional Summary

Full-Stack Developer with innovative skills in **Node.js, React and Microservices Architecture**. Proficient in architecture, scaling systems, optimizing query performance in databases, and creating APIs using the Rest architecture. Demonstrated technical project management experience. through conception to deployment, and placing significant emphasis on system design, CI/CD pipelines, and providing reliable, user-centric.

Work Experience

FitConnectz (Freelance) July 2025 – October 2025
Full-Stack Developer & Architect *New Delhi, Delhi*

- **Architected a scalable microservices backend** using Node.js and Express, decoupling core features (Auth, User Management) into independent services to improve fault tolerance.
- Engineered a resilient authentication system implementing **JWT-based stateless sessions** and bcrypt hashing, integrated with a custom email verification microservice.
- **Optimized inter-service communication** by designing modular RESTful APIs, reducing data retrieval latency by 20% through efficient database indexing in MongoDB.
- Orchestrated the deployment pipeline for a cross-platform Flutter application, managing end-to-end data flow from a distributed backend to mobile clients.

Adventroz April 2024 – Present
Lead Software Engineer *New Delhi, Delhi*

- Spearheaded the end-to-end development of a **microservices-based audio platform**, scaling the Node.js backend to handle **1000+ daily requests** with 99.9% uptime.
- Optimized MySQL database schema and indexing strategies, reducing **complex query execution time by 15%** for high-volume data retrieval.
- Designed a high-performance **React** frontend, implementing code-splitting and lazy loading to improve First Contentful Paint (FCP) by 20%.
- Engineered a responsive Flutter mobile interface, ensuring seamless synchronization with the backend architecture for real-time content delivery.

Key Projects & Achievements

USAR Samvad (College Dashboard) | *MERN Stack, Redux, Socket.io* Link

- **Spearheaded development** of a comprehensive academic management platform, implementing **Role-Based Access Control (RBAC)** for students, teachers, and admins.
- Architected the secure API layer using Node.js and Express, ensuring data integrity across multiple user roles.
- Implemented **real-time data synchronization** for attendance and announcements using **Socket.io**, eliminating the need for manual page refreshes.
- Centralized application state with **Redux Toolkit**, streamlining data flow across complex UI components and reducing state-related bugs.

Portfolio Website | *Next.js, Three.js, Tailwind CSS* Link

- **Developed an interactive 3D portfolio** using Three.js and Next.js, showcasing technical projects with immersive visual effects.
- Achieved **100% application responsiveness** with a mobile-first layout built on Tailwind CSS, improving user engagement metrics by 25%.

Technical Skills

Languages: JavaScript (ES6+), TypeScript, Python, Dart, Java, C++, HTML5, CSS3
Frameworks: React, Next.js, Redux Toolkit, **Node.js**, Express.js, Flutter, Tailwind CSS
Databases & Cloud: MongoDB, MySQL, AWS (EC2, S3), Google Cloud, Docker, GitHub Actions
Core CS & Skills: Microservices Architecture, System Design, **RESTful APIs**, MVC, OOP, DSA, Socket.io

Leadership / Extracurricular

IOSC-EDC Club January 2025 – Present
Tech Co-Lead *University School of Automation and Robotics*

- Mentored 10+ students in full-stack development concepts, conducting code reviews and debugging sessions.
- Led the technical organization of 'Vespera', managing a team of 50+ members and driving a 50% increase in participant engagement through effective project management.

Education

University School of Automation and Robotics Sept 2023 – Expected July 2027
Bachelor of Technology (CGPA: 7.8 / 10) *Surajmal Vihar, Delhi*