Himansh Bansal

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SKILLS & LANGUAGES

Programming: C++, Javascript, Typescript, Advanced SQL
Backend Framework & Tools: Node.js, Express.js, Postman, Git, Sequelize
Database: MySQL, PostgreSQL, MongoDB

EDUCATION

Bachelor's in Technology, Computer Science and Engineering   **Expected May 2026**
Vellore Institute of Technology (VIT), Bhopal University, Madhya Pradesh   CGPA: 8.2/10

PROJECTS

NidhiPath | AI-powered Fintech Backend   **Nov 2024**
- REST API Development Designed and deployed secure, scalable APIs for loan processing, financial data workflows, and AI service orchestration using Node.js and Express.js.
- RAG & NLP Backend Logic: Developed backend pipelines combining document retrieval, embedding generation, Gemini-based inference, and custom NLTK-based text preprocessing via a dedicated NLP API.
- Database & Performance Optimization Structured normalized PostgreSQL schemas and optimized API latency through query tuning and smart caching strategies.

WorkStrat | Team-Project-Management Backend   **Mar 2025**
- Designed scalable REST backend: Built 15+ modular endpoints with Node.js, Express.js, and MongoDB, enabling seamless CRUD operations for workspaces, projects, and tasks.
- Enabled efficient team collaboration: Developed task assignment, progress tracking, and role-based access features to support streamlined multi-user workflows.

Airline Booking System | Microservices-Based Backend   **June 2025**
- Microservice Architecture & API Gateway Designed and deployed 3 core microservices (Search, Booking, Reminder) behind an API gateway supporting JWT auth, load balancing and clean API versioning for scalability
- Database Design & Migrations Structured complex MySQL schemas with 10+ tables and models, strong foreign key relationships and cascading, optimized indexing, migrations via Sequelize CLI, and ACID-compliant transactional flows; ensured data integrity, high availability, and scalability for production-level load.
- Service Connectivity & Business Logic Implemented reliable service-to-service communication and transactional logic for searching flights, managing bookings, and payment gateway.

EXTRA-CURRICULAR ACTIVITIES

IEEE VITB Student Branch | Vice Chairperson   **Sep 2023 – Mar 2025**
- Led 50+ active members, ran 10+ major tech events, engaged 500+ students university-wide.
- Drove impactful mentorship, strategic partnerships, and hands-on learning programs.

SAE Aerothon | Top 32 of 100+ teams   **June 2023**
- Designed and built a stable drone equipped with an automated drop-and-delivery mechanism.

Smart India Hackathon | Top 10 of 200+ teams (VIT Bhopal)   **Oct 2024**
- Created a computer vision-based anomaly detection system aimed at improving women's safety in public spaces.

EY Techathon 5.0 | Semi-finalist (Top 1%)   **Feb 2025**
- Developed an AI-powered financial application with intelligent automation features for enhanced user experience.

INTERESTS

Tech hackathons, workshops, problem-solving competitions, community tech events