

Keshav Gupta

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Backend-focused software developer skilled in building scalable full-stack applications, containerized microservices, and AI-driven systems. Strong foundation in DSA and REST API design, with hands-on experience deploying production-grade services.

Experience

Summer Trainee [🔗](#), CSRBOX

July 2025 – Aug 2025

- Completed a 4-week IBM SkillsBuild project on **Agentic AI**, designing AI agent architectures for real-world problem-solving.
- Developed and presented an **AI-driven solution prototype**, applying multimodal AI techniques and teamwork to address real-world problem scenarios.
- Achieved recognition by being **selected among the top 4 projects out of 400+ participating teams**, demonstrating innovation and impact.

Education

B. Tech, Vivekananda Institute of Professional Studies, Computer Science

Nov 2022 – Present

- GPA: 7.9/10.0
- Coursework:** AIML, Data Structures Algorithms, DBMS, Java, C, C++, Python

Projects

Smart Scape-AI [🔗](#)

- Engineered a full-stack **geospatial analytics** platform leveraging Google Gemini multimodal AI to analyze satellite imagery, generate a greenery score, and recommend optimal locations for required infrastructure plans.
- Containerized the **Python/Flask** backend with Docker and deployed it as a serverless microservice on Render, integrating Gunicorn for **production-grade scalability** and performance.
- Deployed an interactive frontend on **Render** using a **Git-based CI/CD pipeline**, and implemented robust security practices by domain-restricting Google Maps API keys.

E-Commerce Platform — Full-Stack Web Application

- Engineered complete backend architecture with **RESTful APIs** supporting authentication, product management, search, and shopping cart operations.
- Designed scalable data models and implemented **CRUD operations** with **validation and error handling**.
- Integrated **user authentication** and **session handling** to support role-based access for admins and customers.
- Tools Used: Node.js, Express, MongoDB, Mongoose, HTML/CSS/JS

Technologies

Languages: C++, C, Java, SQL, HTML, CSS, JavaScript, Python

Backend: Node.js, Express.js, FastAPI, RESTful API Design

Databases: MongoDB, Mongoose, MySQL

Frameworks: React, Bootstrap

Software: Visual Studio, Microsoft SQL Server, IntelliJ, MATLAB