Ishu Agrawal

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Summary

Computer Science undergraduate with hands-on experience in backend development and full-stack application design. Strong foundation in Data Structures, Algorithms, and Object-Oriented Programming using Java. Experienced in building RESTful APIs, designing secure authentication systems, and integrating AI-based functionalities into production-ready applications.

Technical Skills

Programming: Java, Python, JavaScript, SQL
Core Concepts: Data Structures, Algorithms, OOP, MVC Architecture
Backend: Node.js, Express.js, REST APIs, JWT, Passport.js, Flask
Frontend: React.js, Tailwind CSS, EJS, HTML5, CSS3
Databases: MongoDB, MySQL, Redis
Cloud & Tools: AWS, Git, GitHub, Postman, Render, Vercel
AI Exposure: NLP, spaCy, Prompt Engineering

Education

GLA University, Mathura Expected May 2027
B.Tech in Computer Science (AIML & IoT) | CGPA: 8.47/10

Vidya Devi Jindal School, Mathura 2023
Class XII (Higher Secondary) | 86.6%

Vidya Devi Jindal School, Mathura 2021
Class X (Secondary Education) | 95.0%

Project Experience

Automated MCQ Generator using NLP and AI | Flask, spaCy, Google Generative AI Aug 2024

- Developed an NLP-based system to generate structured MCQs from PDFs and text inputs.
- Designed a hybrid engine combining rule-based noun phrase extraction with AI-assisted question generation.
- Optimized API usage by applying offline summarization prior to model processing.
- Enabled secure PDF export, automated answer validation, and session-based question limits.

Full-Stack E-Commerce Platform | Node.js, Express.js, MongoDB May 2024

- Built a scalable multi-vendor e-commerce system with role-based access control.
- Engineered secure authentication using Passport.js and session management.
- Designed REST APIs following MVC principles for maintainable backend architecture.
- Structured MongoDB schemas to manage product relationships and real-time inventory updates.

Problem Solving

- Solved 500+ algorithmic problems across LeetCode, HackerRank, GeeksforGeeks, and Codeforces.
- Comfortable solving problems involving Trees, Graphs, Recursion, Sliding Window, Greedy techniques, and Dynamic Programming.
- Regularly practice writing optimized and clean Java solutions for competitive programming and interview preparation.

Certifications

- [Microsoft Certified: Azure AI Fundamentals (AI-900)](#) – 2025
- API Development & Automation – Postman Student Program – 2024
- [AI for India 2.0 – GUVI](#) – 2023

Achievements

- Built and deployed multiple backend-focused applications independently.
- Cleared Azure AI-900 certification on first attempt.