

Jay Karan Chaturvedi

Aspiring Software Developer | Full-Stack & Backend Engineering

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Professional Summary

Aspiring Software Developer with a strong academic foundation in backend and full-stack web development. Passionate about building scalable applications and solving real-world problems using modern technologies. Skilled in designing efficient systems, developing RESTful APIs, and working with both SQL and NoSQL databases.

Education

Bachelor of Technology – Computer Science

IES IPS Academy, Indore, Madhya Pradesh

2023 – 2027 (Expected)

Senior Secondary (12th) & High School (10th)

Kendriya Vidyalaya, Barwaha, Madhya Pradesh

2020 – 2022

Technical Skills

Languages	Python, Java, JavaScript
Frontend	HTML, CSS, React.js, TypeScript
Backend	Node.js, Express.js, REST APIs
Databases	MongoDB, MySQL, SQL
Tools	Git, GitHub, VS Code, Postman, Docker
Core Concepts	DSA, OOP, DBMS, System Design

Projects

CogniPrep – AI-Powered Mock Interview Platform

🐙 [GitHub](https://github.com/Jaykaran24/Cogniprep) <https://github.com/Jaykaran24/Cogniprep>

- Developed an AI-powered mock interview platform simulating technical and behavioral interviews for **500+ practice sessions**.
- Built **12+ RESTful API endpoints** using Node.js and Express.js for session handling, response evaluation, and real-time feedback.
- Designed optimized MongoDB schemas to store user profiles, interview history, and performance analytics across **10K+ records**.
- Implemented JWT authentication and session management for secure access control.

Jay Cloud – Self-Hosted Cloud Platform

🐙 [GitHub](https://github.com/Jaykaran24/jay-cloud) <https://github.com/Jaykaran24/jay-cloud>

- Built a full-stack **self-hosted cloud platform** deployed on a homelab Ubuntu server with Docker for personal cloud infrastructure management.
- Developed a **React + TypeScript + Vite** frontend with a responsive dashboard featuring system monitoring, Docker management, and storage tracking.
- Engineered a **Node.js + Express** backend with RESTful APIs for authentication (JWT), admin seeding, and real-time system metrics across **8+ API routes**.
- Integrated **MongoDB** for persistent storage and configured **Traefik** as a reverse proxy with SSL termination.

FitBot AI – Nutritional Data Tracker

🐙 [GitHub](https://github.com/Jaykaran24/fitbot) <https://github.com/Jaykaran24/fitbot>

- Developed a nutrition tracking application integrating external APIs for real-time dietary insights and calorie breakdowns.
- Implemented efficient data-fetching pipelines and JSON parsing, delivering nutritional data in **under 200ms response time**.
- Used Git for version control and collaborative development workflows across multiple feature branches.

Certifications

- Full Stack Web Development – 100xDevs
- Machine Learning – DeepLearning.AI
- DBMS Elite – NPTEL
- Introduction to Java – ULSA