UDAYVEER SINGH

Software developer

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SUMMARY

Final-year BCA student proficient in **MERN Stack** and **Python**. Passionate about solving complex engineering problems, with hands-on experience building **multi-agent AI systems** and **gamified educational platforms**. Seeking to leverage strong frontend logic and backend architecture skills in a challenging development role.

TECHNICAL SKILLS

- **Languages & Stack:** JS, Python, Java, PHP, SQL, MERN, PERN, Flutter.
- **AI/Data:** LLM Integration, Reinforcement Learning, Data cleaning/normalization.

PROJECTS

1) **NOVA - Autonomous AI Agent System**
   Designed a **multi-model AI architecture** using the Gemini API, featuring distinct agents for Research, Coding, and System Control. Implemented a **"Supervisor" logic to route user queries to specific sub-agents**, enabling complex task execution beyond simple chat.

2) **Playcode - Gamified Logic Learning Platform**
   Built an interactive coding logic game for children using **Blockly.js**, allowing users to solve puzzles via **drag-and-drop code blocks. Collaborated in a team environment** to integrate the logic engine with a React frontend. (Semi Finalist in Hackathon)

3) **StudyHub – Academic Resource Hub**
   Designed an academic platform for exam preparation with resources like- Notes, PYQs, YouTube lectures, E-books. Integrated a **MERN-based Q&A forum** for real-time doubts and student collaboration.

EDUCATION

Bachelor of Computer Applications (BCA) | *2023 – 2026*, GGDSD College, Chandigarh

EXPERIENCE & ACHIEVEMENTS

- Designed and developed the frontend for a D2C food startup, establishing the brand's digital identity and product showcase UI
- 3rd position in **'IT Quiz'** - iTech Fiesta 2025