HIMANSHU CHAUHAN

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EXPERIENCE

Open Source Contributor | Hive (Aden AI) | Remote *Jan 2026 - Present*

- Implemented **Pydantic V2 validation** for **LLM nodes** within the core architecture of this **Y Combinator (W24)** backed agent framework.
- Crafted a retry-with-feedback loop that captures validation errors and re-prompts the LLM, allowing agents to autonomously correct malformed **JSON** outputs.
- Merged 657 lines of critical infrastructure code (**PR #349**)↗ that enforces **type safety** and schema compliance, significantly reducing runtime errors for the developer community.

Business Analyst | iHealth and Wellness Foundation, Inc | New York *Aug 2025 - Dec 2025*

- Conducted requirement gathering and stakeholder interviews across **5+** departments, resulting in a **30%** reduction in project ambiguities and accelerating approval cycles by **20%**.
- Analyzed healthcare data and market trends from over **100K** patient records, delivering insights that improved program effectiveness by **25%** and supported a **15%** increase in stakeholder engagement.

PROJECTS

Autonomous AI Interviewer | MongoDB, Express.js, React.js, Node.js, Python, Tailwind CSS *Aug 2025*
GitHub↗

Role: Frontend Lead (Group Project)
- Conceptualized the frontend architecture for this collaborative platform, translating complex backend AI logic into a seamless **React.js** interface.
- Created a robust **JWT Authentication** system to handle secure user logins, session management, and protected routes for candidate privacy.
- Integrated backend endpoints to display real-time interview feedback and dynamic performance metrics using **Tailwind CSS**, ensuring a low-latency user experience.

Low-Code AI Pipeline Builder | React.js, React Flow, FastAPI, Python, Tailwind CSS *Jan 2026*
GitHub↗

- Engineered a modular node-based interface using **React Flow**, creating a scalable **BaseNode** abstraction that reduced code redundancy by **40%** across **5+** custom node types (LLM, API, Database).
- Developed a robust backend validation system with **FastAPI** (Python), implementing a Depth-First Search (**DFS**) algorithm to detect cycles and enforce Directed Acyclic Graph (**DAG**) integrity in real-time.
- Optimized user experience by implementing dynamic text resizing and Regex-based variable extraction (e.g., {{input}}), automatically generating reactive handle connections for complex workflows.

SKILLS

- **Languages :** Python, SQL, JavaScript, HTML/CSS
- **Web Development :** ReactJs, JSON, MongoDB, Responsive Design, GSAP, Tailwind CSS
- **Developer Tools & Platforms :** Git, Docker, Chrome DevTools, Figma, Adobe Illustrator
- **Academic Coursework** : C++, Python, DBMS, OOPS, Data Structures and Algorithms

EDUCATION

ABES Engineering College | AKTU Ghaziabad, Uttar Pradesh, India, 2026

Bachelor of Technology | Computer Science and Engineering (Data Science) *CGPA 7.9*

Relevant Coursework: Object Oriented Programming, Databases, Discrete Mathematics, Data Structures and Algorithms, Operating Systems, Computer Networks

ACHIEVEMENTS

- Solved 300+ DSA problems on LeetCode and HackerRank, consistently improving algorithmic optimization and computational logic. *(Profile)*↗
- Secured a remote internship as a Business Analyst with a New York-based organization, competing against candidates worldwide.
- Completed CS50: *Introduction to Computer Science – Harvard University* (edX), mastering algorithms, data structures, and web development using C, Python, SQL, and JavaScript. *(Certificate)*↗
- Developed and deployed a dynamic, modern-styled e-commerce platform as a participant in the ScholarHat Webathon, demonstrating proficiency in front-end design and user experience with a focus on minimalistic design principles. *(Link)*↗