

# Ankit Kumar Singh

Output-Driven Software Development Engineer  
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## Professional Summary

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Versatile Fullstack Software Development Engineer with 1 year of experience in building high-scale distributed systems using Python and Node.js. Specialist in leveraging Node.js for high-concurrency, real-time APIs while utilizing Python (FastAPI/Django) for microservices, complex data processing, and AI-integrated services, selecting optimal tech stack for balance, with experience building frontend applications using React.js.

## Technical Skills

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- **Languages:** Python, JavaScript
- **Frontend:** React.js, Tailwind CSS, HTML5, CSS
- **Backend:** Django, FastAPI, Node.js, Express.js, REST APIs, WebSockets
- **AI & Cloud:** LangChain, OpenAI API, AWS (S3, Lambda, EC2), Docker, CI/CD
- **Databases:** PostgreSQL, MySQL, MongoDB, Milvus
- **DevOps & Tools:** Git, GitHub, Postman, Jenkins, Kubernetes, GitHub Actions

## Experience

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### Flytech Solutions Pvt. Ltd.

Noida, Uttar Pradesh

*Software Development Engineer*

*April 2025 – Present*

- Built a **bilingual (Hindi/English) voice-enabled chatbot** for a **MERN** video platform using **vector search** and **embedding-based intent matching**, achieving **85% accuracy** and **reducing support queries by 40%** via **Web Speech API** and automated fallback handling.
- Built **production-grade REST APIs** for an **e-commerce platform** using **Django REST Framework**, supporting product, cart, and order flows, handling **10k+ requests/day** with optimized performance for the **React.js** frontend.
- Developed a **role-based admin dashboard** adopted by the internal team using **React.js**, **Node.js**, and **Express.js**, streamlining CRUD operations on user and inventory data with **JWT-based authentication**, reducing manual data handling effort by **50%**.

### Align Infotech Pvt. Ltd.

Nagpur, Maharashtra

*Full Stack Developer Intern*

*May 2024 – Oct 2024*

- Built and deployed **REST APIs** using **Django** and **MySQL** for a **college website**, supporting admissions, notices, and faculty modules, serving **500+ users**.
- Developed **responsive UIs** using **React.js**, **HTML**, **CSS**, including a **product review module** improving user engagement by **25%**.
- Implemented **JWT authentication** and optimized **CRUD operations**, reducing query response time by **30%**, and deployed on **Linux/cloud**.

## Projects

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- **Interactive Online Code Editor with LLM Support** (*Feb 2026 – Present*) | *Python, Django, React.js, Docker, JavaScript*: Engineered a secure multi-language code editor with **Docker-based Linux sandboxing** and a terminal-like React.js UI with real-time I/O streaming. Integrating an **LLM-powered assistant** for contextual hints during coding sessions.
- **Intelligent Table Extraction & RAG based chat** (*Feb 2025*) | *Python, Django, React.js, LangChain, LLMs, REST APIs*: Built a document intelligence platform using **OCR and LangChain** to extract tabular data from PDFs, images, and DOCX files into CSV. Integrated an **LLM chatbot** for natural language querying of document content.
- **Virtual Dressing Room: AI-Powered Clothing Try-On** (*May 2024*) | *Python, Django, React.js, WebSockets, OpenCV*: Engineered a real-time virtual try-on system using **OpenCV** for body landmark detection and **WebSockets** for low-latency garment overlay on live webcam feed.

## Education

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Faculty of Engineering and Technology, DMIHER

Wardha, Maharashtra

*B.Tech in AI & ML*

*Nov 2021 – April 2025*