Rishabh Singh

FULL STACK ENGINEER (MERN) | JAVASCRIPT & PYTHON SOLUTIONS

Uttar Pradesh, 233304 ■ +91 9431047079 ■ rishabhsinghsos123@gmail.com

ABOUT ME

I have hands-on experience in MERN stack and Python software development. I've developed projects like a Face Detection Management System a Weather App using API integration and a personal portfolio website. My major focus areas are JavaScript and Python where I enjoy creating efficient user-friendly, and visually appealing applications. I Completed my MCA from Amity University specializing in Machine Learning and Artificial Intelligence, and I'm always eager to learn adapt and bring creative solutions to real-world challenges.

WORK EXPERIENCE

.

Project Experience

AI-Powered Self-Learning Voice Receptionist (Flask + LiveKit + NLP + Supervisor Training System) Currently Working on it..
- Developed an AI receptionist using **Flask, Python, and LiveKit** enabling real-time voice conversations between customers and the AI.
- Integrated **speech-to-text and text-to-speech** pipelines so users can talk naturally instead of typing.
- Designed a **self-learning knowledge base**: unknown questions are saved and later answered by a supervisor, making the AI train itself automatically.
- Built a full **supervisor dashboard** to review pending queries, submit answers, and track resolved/unresolved requests.
- Implemented a structured **AI memory system using JSON**, enabling automatic learning without retraining the model.
- Created a clean **web UI for both customer and supervisor**, including live request tracking, voice call controls, and AI response display.

Face Detection Management System – Developer (College Project)
- Developed a real-time **Face Detection & Attendance Management System** using **Python**, **OpenCV**, and **Tkinter**.
- Implemented a **SQL database** to store and manage student records with features like **add**, **delete**, **update**, and **search**.
- Automated attendance tracking, improving accuracy and reducing manual work by over **40%**.
- Integrated **APIs** for efficient data handling and optimized overall performance.

Smart City Management System – Developer (Academic Project)
- Designed and developed a **Smart City Management System** using **Python**, **IoT-based technologies**, and **API integration**.
- Built modules for **waste management**, **traffic monitoring**, and **citizen service tracking**, enhancing urban data coordination.
- Utilized **SQL** for structured data storage and retrieval, ensuring scalability and system stability.
- Designed a clean and intuitive interface to improve usability.

Portfolio Website – Developer (Personal Project)
- Built a responsive **Portfolio Website** using **React**, **JavaScript**, **HTML**, and **CSS** to display personal projects and achievements.
- Integrated **EmailJS** for direct contact functionality and connected to **SQL** for storing project details.
- Implemented a modern neon-dark UI with smooth transitions and animated effects for better user experience.

Weather Application – Developer (Personal Project)
- Created a real-time **Weather App** using **JavaScript** and **OpenWeatherMap API** to fetch and display current weather details.
- Designed a visually appealing and responsive layout for a smooth user experience.
- Focused on clean UI, responsive layout, and optimized API handling for better performance.

Mini Projects Collection – Self Practice
- **Digital Clock** – Live time display with **CSS glow effects** and **JavaScript** functionality.
- **Countdown Timer** – Custom timer app with start, pause, and reset features.
- **To-Do List App** – Interactive task list with add, edit, and delete options using **Local Storage**.
- **Gradient Generator** – Created a tool to generate and copy CSS gradient backgrounds dynamically.
- **Currency Converter** – Developed a converter using **API integration** to fetch real-time exchange rates between multiple currencies.
- **Calculator** – Functional and responsive calculator built with **HTML, CSS**, and **JavaScript**.
- **Random Quote Generator** – Fetches motivational quotes using a public **API**, refreshing automatically with every click.

EDUCATION

SOS Hermann Gmeiner School in Varanasi

B.Sc (Science) – [VBSPU]|2021

B.Ed (Bachelor of Education) – [VBSPU], [2023]

MCA (Master of Computer Applications) – Amity University, 2025 Major: Machine Learning & Artificial Intelligence. Relevant Coursework: Deep Learning, Natural Language Processing, Computer Vision

National Institute of Electronics & Information Technology (NIELIT) – O-Level Program (1 Year, Government Accredited) – [2025]. Skills Acquired: Web Development Basics, and Python Programming

LINK

Portfolio Website

https://rishabhcodespec.netlify.app?utm_source=resume&utm_medium=web

SKILLS

HTML5	CSS3
JavaScript	Python
React.js	Node.js
MongoDB	SQL
Express.js	