KESHAV TOSHNIWAL

Software Engineer | AI & Full Stack Developer | IoT Systems

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PROFESSIONAL SUMMARY

B.Tech ECE student with experience in full-stack web development, IoT, and applied AI. Proficient in React.js, Node.js, Python, and Firebase, with hands-on exposure to integrating AI chatbots and automation systems. Recently exploring Generative AI, LangChain, and OpenAI API to develop intelligent applications. Seeking AI Engineer or Full Stack Developer roles to contribute to real-world AI/ML solutions and cloud-integrated systems.

TECHNICAL SKILLS

Programming Languages: Python, C++ ,HTML5, CSS3

AI & ML:Pandas, NumPy, LangChain, OpenAI API, Hugging Face (Beginner)

Web & Mobile Development: React.js, Node.js, Express.js, React Native

Cloud / Databases: Firebase Realtime DB, AWS (EC2, Lambda basics), Streamlit

IoT / Embedded Systems: ESP32, Arduino, Sensors, Tinkercad, Proteus

Tools / Version Control: Git, GitHub, Postman, VS Code, Google Colab

PROFESSIONAL EXPERIENCE

Full Stack Web Developer Intern   Jun 2025 – Aug 2025
1STOP Digital Solutions   *Remote*
- Built responsive and scalable web applications using React.js, Node.js, Express.js, and REST APIs.
- Optimized performance and mobile-first UI, improving user engagement by 20%.

IoT Software Engineer Intern   Jul 2024 – Sep 2024
EvCharZ - Electric Vehicle Solutions   *Udaipur, India*
- Developed IoT-enabled EV charging system using ESP32 and Firebase cloud integration.
- Implemented real-time monitoring, scheduling, and automated payments.

KEY PROJECTS

AI-Powered Smart Home Platform | IoT, AI, Full Stack   2025
- Designed IoT ecosystem with ESP32, Firebase, React.js, and Node.js for automation.
- Integrated voice assistant and OpenAI-based chatbot for intelligent control.

Chat with PDF (LangChain & OpenAI) | GenAI Project(Running)   2025
- Implemented Retrieval-Augmented Generation (RAG) chatbot using LangChain with locally hosted models.
- Built an interactive Streamlit interface for querying and summarizing PDF content.

E-Commerce Website | MERN Stack   2025
- Developed full-stack e-commerce platform with React.js, Node.js, and Razorpay integration.

EDUCATION

B.Tech in Electronics and Communication Engineering   2022 – 2026
Swami Keshvanand Institute of Technology, Management & Gramothan   *Jaipur, Rajasthan*
Senior Secondary (CBSE) - 75%   2021
Mathematics, Physics, Chemistry   *Udaipur, Rajasthan*
Secondary (CBSE) - 87%   2019
                                                                           Udaipur, Rajasthan

SOFT SKILLS

Communication, Problem Solving, Adaptability, Teamwork, Creativity, Time Management