Raghvendra Kumar

(Software Developer)

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Summary

Full stack Developer specializing in web development and AI solutions. Skilled in MERN stack and Python with experience building projects like 'NerdHive', 'CodeLens' and 'Smart Assistant'. Passionate about creating secure, scalable AI-driven applications.

Skills

- **Programming Language:** Javascript, Python, C/C++, HTML, CSS.
- **Tools and Frameworks:** **Node.JS**, **React.JS**, Redux, AWS, Git, MongoDB, NGINX, PM2, RAG, Langchain, Hugging Face, CrewAI, Prompt Engineering, Postman, IDEs.
- **Others: Data Structure and Algorithm**, OOPs, DBMS..

Experience

AI-Security-Research-Group (Full Stack Developer)   *Bangalore, India*   **07/2024 - Present**
- Currently helping the group building AI driven security solutions and PoCs.

Projects

- **Nerdhive.in:**
  - Developed a full-stack social media cum project management platform.
  - Enabled user authentication, connection requests, and **real-time collaboration** for projects tasks and team management, **live chat** feature.
  - Implemented **JWT-based authentication,** protected routes, and **RESTful API's** for secure and seamless functionality.
  - Designed a **responsive UI** with features like user feed, project creation, task assignment, and status tracking
  - **Manually deployed** the application(nerdhive.in) on **AWS EC2 instance** for scalable and reliable cloud hosting.
  - **Tech Stack** - MERN(MongoDB, Express.js, React.js, Node.js), websocket(socket.io), AWS, Git.

- **Smart Assistant:**
  - Built a chatbot using **OpenAI GPT-4**, **LangChain**, and **ChromaDB** to answer queries with Retrieval-Augmented Generation (RAG).
  - Enabled **dynamic context updates** via file uploads (PDF/TXT) and retained **conversation history** using ConversationBufferWindowMemory.
  - Designed a user-friendly interface with **Streamlit** for seamless file uploads and chat interactions.
  - Demonstrated expertise in AI-powered applications, NLP, and vector databases.
  - **Tech Stack**: OpenAI GPT-4, LangChain, ChromaDB, Streamlit, PyPDF2, Python.

- **CodeLens:**
  - Developed an automated code review system using Python and React with multiple AI agents for code analysis.
  - Built specialized **AI agents** for security, performance, documentation, and code style validation to ensure high-quality code.
  - Created a **React-based dashboard** for visualizing code review results, managing feedback, and tracking issues.
  - Implemented a Python backend with **REST APIs** for code parsing, issue tracking, and integration with AI agents.
  - Enhanced developer productivity by automating code reviews and providing **actionable insights**.
  - **Tech Stack**: Python, React, AI/ML, Git, REST.

Others

- Led the team in the final year major project **AI based mock-interview system** in college resulting in timely execution of the project.

Education

B.Tech (Information Technology)   Axis Institute of Technology   *Kanpur, India*   **06/2018 - 06/2022**