

Devanshu Kumar Singh

+91 9798830805 | singhdevanshu0803@gmail.com | [linkedin.com/in/devanshu0803](https://www.linkedin.com/in/devanshu0803) | github.com/Devanshu1603

EDUCATION

UIET (Panjab University)

B.E. In Information Technology

Chandigarh

Aug. 2023 – May 2027

SUMMARY

Software Developer with a strong foundation in modern web application development and a growing specialization in AI-integrated systems. Experienced in designing and developing robust, user-centric solutions across both frontend and backend layers with a focus on performance, scalability, and clean architecture. Gained practical experience in integrating Agentic AI to build intelligent conversational agents capable of understanding and interacting with complex datasets. Adept at blending software engineering principles with emerging AI paradigms to deliver high-impact, context-aware user experiences. Currently expanding skillset in DevOps, cloud deployment, Docker, and Kubernetes to build resilient and containerized applications. Actively seeking opportunities to contribute to innovative projects and grow as a software developer.

EXPERIENCE

Open Source Contributor

September 2024 – October 2024

GIRLSCRIPT SUMMER OF CODE 2024-EXT

- Actively contributed to multiple open-source projects, leveraging React.js, JavaScript, Firebase, and Node.js.
- Collaborated with developers worldwide to resolve complex issues, optimize codebases, and develop new features.
- Enhanced expertise in Git version control, peer code reviews, and agile development methodologies.

PROJECTS

Multi-Agent-Scientific-Research-Co-Pilot | *Python, FastAPI, LangChain, LangGraph*

August 2025

- A Python-based multi-agent research system that coordinates specialist agents (ArXiv search, web search, and report writer) via a Supervisor agent using LangGraph / LangChain and OpenAI models to automate multi-step research, summarization, and report generation.
- Optimized agent communication and task handoff via a Supervisor Agent architecture, streamlining complex research tasks and cutting processing time.
- Built dynamic transfer tools and a LangGraph StateGraph router so the Supervisor can programmatically delegate tasks to specialized agents and stream responses back to users.

GitHub Repository Companion Chatbot | *FastAPI, React, LangChain, ChromaDB, Docker*

July 2025

- Forged a RAG based full-stack AI chatbot that simplifies GitHub repository queries via natural language input, providing a 30 reduction in time spent on code comprehension and debugging efforts.
- Integrated GitPython to clone and parse code files, then applied recursive chunking and embedded relevant content using Gemini 1.5 Flash.
- Implemented a ReAct-style agent with a suite of tools (CodeExplainer, BugFinder, DocGenerator, CodeModifier, etc.) that automatically routes user queries to the appropriate tool and invokes LLM responses.

Tourism Website | *JavaScript, React, Node, Express, MongoDB*

October 2024

- A full-stack tourism web application enabling users to discover top destinations in India through real-time search and curated content.
- Designed and developed a fully responsive UI using React and Bootstrap to enhance cross-device usability and user experience.
- Built a RESTful backend with Express.js and MongoDB to efficiently manage location data, user interactions, and dynamic content delivery.

TECHNICAL SKILLS

Languages: JavaScript, Python, C/C++

Frameworks/Libraries: React.js, FastAPI, RAG, LangChain, LangGraph, Node.js, Express.js, Bootstrap, Tailwind

Tools/Platforms: MongoDB, MySQL, ChromaDB, Firebase, Docker, AWS, Linux, GitHub