

Anshul Garg

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Summary

Results-driven Computer Science Engineering student with proficiency in Python and operating systems (Linux/Windows). Specializing in Cyber Security and DevOps, with a focus on developing secure, efficient, and user-centric solutions to complex technical challenges.

Experience

Software Development Intern

Jan 2026 – April 2026

Hestabit Technologies Pvt. Ltd.

- Built AI systems using AutoGen-based multi-agent architectures (planner-executor-validator) and RAG pipelines with FAISS for context-aware retrieval.
- Developed scalable backend services using Node.js, Express with secure API design (Helmet, rate limiting, validation) and optimized performance.
- Designed responsive frontend applications using Next.js and TailwindCSS with modular component architecture.
- Implemented ML pipelines and optimized LLMs using LoRA/QLoRA, quantization (INT4/INT8, GGUF), and local/API-based inference setups.

Summer Trainee

July 2025 – September 2025

Centre for Development of Telematics (C-DOT)

- Engineered kernel-level filters to deny access to vulnerable USB storage devices across both Windows and Linux.
- Developed an anomaly detection system to identify security threats by analyzing logs from enterprise-grade government security software.

Technical Lead

Nov 2023 – October 2025

CIIE - SRM University

- Successfully provided technical guidance, mentorship, and code review for a team exceeding 50 members across projects.
- Successfully led the end-to-end organization of SRM Builds Hackathon 4.0, successfully hosting over 750 participants.
- Spearheaded technical initiatives within the Center for Incubation, Innovation, and Entrepreneurship .

Campus Strategizer

March 2024 – June 2025

ONDC Campus Connect

- Responsible for collaborating with student organizations and academic departments to maximize ONDC's campus presence.

Research & Publications

- Enhancing LSTM-based Piano Music Generation with Self-Attention on the Lakh MIDI Dataset.

Projects

Illegal House Development Surveillance (SIH 1618)

- Developed AI models for analyzing satellite and drone imagery to detect potential illegal constructions.
- Implemented real-time processing of live drone feeds for immediate detection of ongoing unauthorized construction activities.
- Project developed for Smart India Hackathon (SIH) 2024, addressing problem statement 1618 (Winning Entry).

AI Agent Communication via Non-Human Language

- Developed a proof-of-concept system enabling direct communication between two independent AI software agents.
- Integrated the 'ggwave' library to encode structured data into sound waves and decode received audio signals between agents.
- Demonstrated an alternative, localized communication channel for AI agents.

Technologies

Languages: Python, C, SQL

Technologies: Linux Server Development, Networking, AI/ML (Image Analysis, Audio Encoding/Decoding), Drone Integration

Skills: DevOps, Cyber Security, Real-time Data Processing

Awards and Community Participation

- Served as a judge for the Frame and Focus hackathon.
- Mentored participants in the HackBlocks 1.0 hackathon.
- Mentored participants in the HackHazards '24 hackathon.