Adarsh Kumar

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Summary — Motivated and dedicated Computer Science Engineering student with a keen interest in software development and networking. Looking for an internship opportunity to enhance my skills and gain hands-on experience in real-world applications.

Skills

Programming Languages:	C,Java, Python
Databases:	MySQL, MongoDB
Networking Tools:	Cisco Packet Tracer
Other Skills:	DBMS, Networking Fundamentals, Manual Routing, DNS Configuration

Relevant Coursework

Core Subjects:
Data Structures & Algorithms (DSA)
Database Management Systems (DBMS)
Computer Networks
Operating Systems

Project

Image Encryption using PSO
Developed encryption algorithms using Particle Swarm Optimization (PSO) to enhance image security.
Validated system performance using real-world image datasets.
Gained hands-on experience in cryptographic techniques and data security.

Secure File Sharing System (Using Java & AES Encryption)
Developed a secure file-sharing system that ensures **confidentiality and integrity** of transmitted files.
Implemented **AES encryption** to protect files during transmission, preventing unauthorized access.
Used **Java** for backend processing and **MySQL** for secure file metadata storage.
Integrated **cryptographic hashing** to verify file integrity after transmission.
Designed a **user-friendly interface** for file upload, download, and verification.

Network Security Analyzer (Using Python & Cisco Packet Tracer)
Developed a **network security analyzer** to monitor network traffic and detect security threats.
Used **Python & Scapy** for packet sniffing and anomaly detection in network traffic.
Integrated with **Cisco Packet Tracer** to simulate network attacks and analyze vulnerabilities.
Implemented **firewall rule testing** to identify misconfigurations that could lead to security breaches.
Designed a dashboard for **real-time security alerts and analysis** to enhance network protection.

Education

Kalinga Institute of Industrial Technology (KIIT), Bhubaneswar
B.Tech in Computer Science & Engineering (Graduation: 2026)
SGPA in 5th semester : **7.3**

Languages:

English: Fluent
Hindi: Native

Certifications & Training

Google IT Support Certification – Coursera
Introduction to Cybersecurity – Cisco Networking Academy
Python for Data Science – Harvard CS50 (edX)

Extracurricular Activities

Active participant in coding challenges on platforms like **LeetCode, Neetcode, GeeksForGeeks**

Strengths

Quick learner with strong problem-solving skills.
Good understanding of networking concepts and database management.
Ability to work in a team and adapt to new technologies.