

KRISHNA SINGH NEGI

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Education

Graphic Era Hill University, Dehradun

2023 - 2027

B.Tech CSE (Hons.) with Cyber Security

Projects

Link-Up: A Team Finder Platform.

[Source Code](#)

- Build a Platform which help the user to get an perfect team as per there requirements/skills.
- Implemented authentication, team creation, profile matching, chat-inbox.
- Designed Backend architecture with scalability and clean code.
- Designed a User-friendly frontend which makes it much easier to used by the users.

Zencube: Secure Sandbox Environment.

[Source Code](#)

- Developed a sandboxed environment for secure execution of untrusted programs.
- Implemented resource isolation to restrict CPU, memory, and system access.
- Prevented unauthorized interactions with the host operating system.
- Strengthened understanding of system security, process isolation, and execution control.

Optimized Water Distribution System using Graph Algorithms.

[Source Code](#)

- Designed a system to distribute water among households while minimizing total pipeline length.
- Modeled the water network as a graph and applied optimization techniques to ensure efficient connectivity.
- Ensured near-uniform water distribution so that no household faces water shortage.
- Planned enhancement includes leakage detection mechanisms to identify pipeline faults.

Cipher-Sweep: Full System Vulnerability Scanner.

[Source Code](#)

- Developed a full-system vulnerability scanner to identify security weaknesses in target systems.
- Implemented features such as **port scanning**, **service detection**, and **basic vulnerability analysis**.
- Designed a user-friendly interface to simplify security assessment workflows.
- Improved understanding of network security, system enumeration, and ethical hacking methodologies.

Technical Skills

Languages: Python, Java, C++, C

Backend: Node.js, Express.js

Frontend: HTML, CSS, React, Bootstrap

Clouds & Databases: AWS, MySQL, MongoDB

Developer Tools: Postman, VS Code, GitHub, Xcode

Certifications

Java (Basic) Skill Certification

June 2025

HackerRank

Fundamentals of Information Security

Infosys

AWS Cloud Practitioner Essentials

Amazon Web Services (AWS)

AWS Cloud Quest

Amazon Web Services (AWS)

Computer Networks and Internet Protocols

NPTEL / SWAYAM

Academic & Practical Exposure

- Applied algorithmic concepts learned in coursework to real-world inspired projects.
- Worked on graph-based modeling and optimization problems.
- Strengthened understanding of networks, security, and system behavior through hands-on projects.