

Akash Kumar

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Professional Summary

Results-oriented Computer Science student specializing in backend development and cybersecurity. Proficient in Java, Python, and building security tools from the ground up. Combines a strong foundation in the Spring Framework with practical experience in network analysis and ethical hacking to create secure and robust applications.

Education

B.Tech in Computer Science and Engineering **2023 – 2027 (Expected)**

NIST University, Berhampur, Odisha

Higher Secondary (XII - Science) **2021 – 2023**

A.M College, Gaya, Bihar

Matriculation (X) **2020 – 2021**

Dini Academy, Gaya, Bihar

Technical Skills

- **Backend Development (Java):** Spring Boot, Spring Security, Spring MVC, REST APIs, JPA / Hibernate
- **Programming Languages:** Java, Python, C, SQL, Bash, Powershell
- **Cybersecurity:** Red Team Tooling, Network Analysis, C2 Development, OWASP Top 10
- **Tools & Databases:** Git, GitHub, Maven, Docker (Familiar), MySQL, Postman
- **CS Fundamentals :** OOPS, Data Structures & Algorithms, DBMS, OS (Linux)

Projects

Command and Control (C2) Framework for Red Teaming

[GitHub Link](#)

Technologies: Python, SpringBoot , Client-Server Architecture , Web Sockets

- Engineered a client-server C2 framework to simulate red team operations for security research.
- Implemented capabilities for remote shell execution, system information gathering, and basic file transfer.
- This project demonstrates a deep understanding of network protocols and offensive security tool development.

Certifications

- [TryHackMe Junior Pentester](#)
- [TryHackMe Cybersecurity 101](#)
- [TryHackMe Pre-Security](#)
- [Networking Basics \(Cisco\)](#)

Activities

- **Core Member, Club Excel:** Actively participate in organizing workshops on emerging technologies for university students.