

# ABHINASH KUMAR JHA

Cyber Security and Networking

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## EXPERIENCE

### Full-Stack Development Intern

03-2025 – 05-2025

DAIRA EdTech

Remote

- Assisted in designing and developing responsive web applications with emphasis on secure front-end architecture, safe handling of user inputs, and reliable API communication.
- Developed and maintained unit tests (15+) to validate application logic and detect defects early, improving software reliability and reducing the risk of security-related failures in later stages.
- Actively contributed to code reviews and documentation, following best practices in version control for efficient development workflows.

## PROJECTS

### Hybrid Intrusion Prevention System | Snort (Custom Rules) + Elastic Dashboard

[\[Project Link\]](#)

- Designed and implemented a Hybrid Intrusion Prevention System (IPS) using Snort in inline mode for real-time packet inspection, alerting, and automated threat blocking with custom rules.
- Configured network security mechanisms including NFQUEUE, iptables, TCP/IP traffic analysis, and rule-based attack detection to monitor and prevent malicious network activity.
- Integrated the Elastic Stack (ELK) to build a centralized security monitoring dashboard, enabling log analysis, visualization, and correlation of network

## CERTIFICATIONS

[📄 All Certificates](#)

- AWS Cloud Security Foundations | AWS
- CCNA: Networking | Cisco NetAcad
- Introduction to CyberSecurity | Cisco NetAcad
- Ethical Hacking | NPTEL
- Python Essentials | Cisco NetAcad
- Introduction to Packet Tracer | NPTEL

## TECHNICAL SKILLS

**Scripting:** Bash, Python(Basics)

**Cyber Security Technologies** Kali Linux, Ubuntu Linux and Ubuntu-Server, Windows Server, Access control and Identity Management, Azure AD

**Cyber Security Tools:** NMAP, SNORT, SIEM, DNS, Firewalls, Active and Passive Reconnaissance, Threat and Malware Detection, TCP/IP

**Concepts in Security:** Cloud Security, Vulnerability Assessment and Penetration Testing (VAPT), Cyber Threat Intelligence, Privilege Escalation, Cryptographic Exploitations

## EDUCATION

### Galgotias University

2022-2026

B.Tech - Computer Science and Engineering - CGPA - 7.9

Greater Noida

## Research Projects and Other Achievements

- Doing a research project in the Cyber-Security domain titled **Lightsense: Phishing Email Detection on Resource-Constrained Edge Devices**
- Completed Bandit and Leviathan levels of CTF wargames on the OverTheWire platform.
- Represented my college team in the **Indian Army's Capture the Flag competition**

## PROFESSIONAL SKILLS

**Effective Communication:** Strong communication skills developed through teamwork and interpersonal interactions.

**Cross-Functional Collaboration:** Got along with experts and experienced developers to pursue the internship project.

**Leadership Mentoring :** Lead the team of interns in a startup company for continuous API testing and integration.