# ABINASH KUMAR

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## CAREER SUMMARY

Cybersecurity student with practical experience in penetration testing and vulnerability assessment. Proficient in tools like Nessus, Metasploit, and Wireshark. Skilled in Python, Go, and Java, with a solid grasp of network security and encryption. Passionate about securing systems and data.

## TECHNICAL SKILLS

**Security Tools:**
- **Offensive:** Nessus, Metasploit, Burp Suite, Nmap.
- **Defensive:** Splunk, Snort, Suricata, OSSEC, Wireshark.
- **Core Skills:** SIEM, IDS/IPS, Firewalls, Threat Hunting, IAM, Encryption.

**Operating Systems:**
- **Linux:** Kali Linux (pentesting focus), Ubuntu, Red Hat (enterprise security)
- **Windows:** Windows 10/11, Windows Server (security hardening)

**Programming/Scripting:**
- **Advanced:** Python (security automation, tool development), Bash (scripting)
- **Proficient:** Go (for secure tooling), Java/C (understanding vulnerabilities)
- **Familiar:** JavaScript (web security context)

## WORK EXPERIENCE

**Python Developer Intern | Ekaantik Software Solutions**                            **Dec 2024 - Mar2025**
- Developed and deployed a full-stack Django-based application with RESTful APIs for managing student records, subjects, and marks using Docker-containerized PostgreSQL.
- Implemented JWT-based authentication with secure password hashing and refresh tokens, improving application security and session management.
- Built role-based access control (RBAC) to restrict API access based on user roles (student/teacher), enhancing system integrity and compliance.

**Cybersecurity Analyst (Virtual Simulation) | TATA**                                   **Oct 2024**
- Worked with a simulated Cybersecurity Consulting team to design and implement IAM solutions.
- Applied IAM principles and cybersecurity best practices in real-world business scenarios.
- Delivered detailed documentation and presentations, translating complex technical topics for diverse stakeholders.

**Cybersecurity Virtual Experience Participant | Mastercard**                           **Nov 2024**
- Role: Security Awareness Analyst, identifying and reporting phishing threats.
- Assessed business areas for security gaps and implemented targeted training programs.
- **Impact:** Enhanced organizational resilience by reducing phishing risks and improving security awareness.

# CERTIFICATION

### Google Cybersecurity Professional Certificate | Coursera
- Topics: Network Security, Linux, SIEM Tools, Incident Response, and Threat Analysis.

### IBM Cybersecurity Analyst Professional Certificate | Coursera
- Topics: Network Defense, SIEM, Threat Intelligence, Incident Response, SOC Analyst Skills.

### Introduction to Cyber Security | Cisco Networking Academy
- Topics: Cyber threats, attack types, security principles, basic defense mechanisms.

### Cybersecurity Essentials | Cisco Networking Academy
- Advanced topics like cryptography, risk management, and firewall configuration.

### Ethical Hacking Essentials (EHE) | EC-Council
- Practical skills in reconnaissance, scanning, exploitation, and malware.

# PROJECTS

### Caesar Cipher Encryption Tool
- Developed a Python application to encrypt and decrypt user input using the Caesar Cipher algorithm. Strengthened understanding of classical encryption techniques.

### Keylogger Software
- Built a Python-based keylogger for ethical demonstration, simulating real-world threats in a controlled environment. Focused on understanding input capture techniques and documenting defense strategies.

### Network Packet Sniffer
- Built a packet sniffer using Python and Scapy to capture and analyze network traffic, focusing on TCP packets. Improved skills in packet inspection and network protocol analysis.

### CTF Participation
- Actively practicing privilege escalation and web exploitation labs on TryHackMe's Offensive Pentesting and Cyber Defense paths.
- Participated in **picoCTF 2025** to develop skills in cryptography, reverse engineering, and basic web security.

# EDUCATION

### Bachelor of Computer Applications (BCA)
- Parul University | CGPA: 8.27 | Vadodara, Gujarat.

### Higher Secondary Certificate (HSC)
- Sree Ayyappa Public School | Percentage: 81% | Bokaro, Jharkhand.