

# Jai Bhagwan Roy

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## PROFESSIONAL SUMMARY

Results-driven Computer Science student with hands-on experience in cybersecurity, penetration testing, and software development. Proficient in Python, Linux system administration, and secure application development. Demonstrated expertise in vulnerability assessment, security consulting, and implementing robust security solutions. Seeking opportunities in Software Engineering, Cybersecurity, or Data Science roles at innovative technology companies.

## EDUCATION

### IILM University

Bachelor of Technology in Computer Science & Engineering; CGPA: 7.1/10.0

Greater Noida, India

Sep 2022 – Jul 2026

- Relevant Coursework: Operating Systems, Database Management, Computer Networks, Machine Learning, Cybersecurity Fundamentals

## TECHNICAL SKILLS

**Programming Languages:** Python, SQL, Bash, JavaScript, HTML/CSS

**Frameworks & Libraries:** Flask, React, NumPy, Pandas, Scikit-learn, TensorFlow

**Security Tools:** Metasploit, Burp Suite, Nmap, Wireshark, OWASP ZAP, Kali Linux, John the Ripper

**DevOps & Cloud:** Git/GitHub, Docker, Linux (Ubuntu/Debian/Kali), AWS

**Databases:** MySQL, PostgreSQL, MongoDB

**Certifications:** Ethical Hacker(EC-Council), Endpoint Security, Mastercard Cybersecurity Simulation, Tata Cybersecurity Analyst

## PROFESSIONAL EXPERIENCE

### Cyber Security Intern

Jul 2025 – Sep 2025

*onlybees*

*Manipur, India*

- Conducted comprehensive vulnerability assessments on 15+ web applications using OWASP methodology, identifying and documenting critical security flaws with 95% accuracy
- Automated security scanning workflows using Python scripts, reducing manual testing time by 40% and improving threat detection efficiency
- Performed penetration testing on network infrastructure, simulating real-world attack scenarios and providing detailed remediation reports to stakeholders
- Collaborated with development teams to implement secure coding practices, resulting in 30% reduction in security vulnerabilities in production code

### Penetration Tester

Aug 2024 – Sep 2024

*Devskillhub Training and Consultancy*

*India (Remote)*

- Executed black-box and white-box penetration tests on web applications, APIs, and mobile applications using Burp Suite and Metasploit
- Identified and exploited SQL injection, XSS, CSRF, and authentication bypass vulnerabilities in 10+ client applications
- Created detailed technical reports with proof-of-concept exploits and remediation strategies, achieving 100% client satisfaction
- Mentored junior team members on ethical hacking techniques and secure development lifecycle practices

## PROJECTS

### Automated Vulnerability Scanner | Python, Nmap, BeautifulSoup, SQLite

Jan 2025

- Developed a custom web vulnerability scanner that automates reconnaissance, crawling, and vulnerability detection for web applications
- Integrated OWASP Top 10 vulnerability checks including SQL injection, XSS, and security misconfigurations
- Implemented multi-threading for concurrent scanning, improving scan speed by 60% compared to sequential execution

### Network Traffic Analyzer & Threat Detection System | Python, Scapy, Pandas, Machine Learning

Dec 2024

- Built a real-time network traffic analysis tool using packet sniffing and anomaly detection algorithms
- Implemented machine learning models (Random Forest, SVM) to classify network traffic and detect DDoS attacks with 92% accuracy
- Created interactive dashboards using Matplotlib for visualizing network patterns and security events

### Secure Authentication System | Python, Flask, PostgreSQL, JWT, bcrypt

Oct 2024

- Designed and deployed a secure RESTful API with JWT-based authentication, role-based access control, and rate limiting
- Implemented password hashing with bcrypt, SQL injection prevention, and HTTPS enforcement for secure data transmission
- Conducted security testing using OWASP ZAP and Burp Suite, achieving zero critical vulnerabilities in final deployment

## ACHIEVEMENTS & LEADERSHIP

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**Certifications:** Ethical Hacker (EC-Council style), Endpoint Security, Mastercard Cybersecurity Job Simulation, Tata Cybersecurity Analyst Job Simulation

**Technical Contributions:** Active contributor to open-source security tools on GitHub; Documented security best practices for student developer community