

Harmeet Kaur Bawa

CYBER SECURITY ENGINEER · SOFTWARE ENGINEER · SECURITY EXPERT

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“Security Engineer at paytm.com | Securing India’s largest OLTP System.”

Technical Skills

DevOps Security	AWS, Docker, Kubernetes, Terraform, Jenkins, ScoutSuite, Security Monkey, TruffleHog, OSSec, etc
Application Security	OWASP, SonarQube, Burp Suite, Zap Proxy, WAF, SQLMap, Netsparker, Custom Scripts and exploits
Network Security	WAF, VPNs, SSL, Nmap, CS-Suite, Guard-Duty, DLP, Wireshark, Domain takeovers, etc
Vulnerability Assessment	Nessus, Qualys, OpenVAS, Nexpose, Metasploit, Nikto, Dependency Check, DockScan, etc

Profile Summary

- Currently accountable for securing Paytm.com’s network and applications.
- Latest bounty - 8 March 2020 on nykaa.com (High severity issue).
- Bug bounty hunter since 2016.
- Received Paytm Star award: for leading and implementing source code analysis projects.
- Received Kudos award: technical excellence in VAPT - EY.
- Training college students at ITM Gwalior and BVCOE for stepping into cyber security.
- Worked with 8 clients at EY - fintech’s, HR outsourcing companies, payment banks, e-wallets and search engine company.
- Received scholarship: Google Grace Hopper Scholarship, 2017.
- Received 2nd prize: 2 national hackathons (Smart India Hackathon 2017 & 2018).

Experience

Paytm, One97 Communications Ltd

Noida, India

SECURITY ENGINEER

July 2019 - Present

- Implemented static code analysis (SCA/SAST) for critical apps.
- Implementing container security for Docker & Kubernetes environments.
- Periodically performing web application security testing (vapt).
- Infrastructure penetration testing and red teaming activities.
- Maintaining Akamai web application firewall (waf) for critical endpoints.
- Implemented continuous security with DevOps CI/CD pipelines.
- Managing bug bounty program i.e. bugbounty.paytm.com.
- Holding workshops for source code analysis and container security.

Ernst and Young (EY)

New Delhi, India

CYBER SECURITY ENGINEER

June 2018 - Sept 2019

- Web application security testing (vapt).
- API reviews for security vulnerabilities.
- Red Teaming activities.
- MBSS review and assessment.
- Performed source code analysis to identify security issues.
- RBI PPI and UPI technical security audit.

Researcher and Bug Bounty Hunter

Various

CYBER SECURITY RESEARCHER

Since 2016

- Bug bounty hunter at 'Synack Red Team'.
- Latest Hall of Fame: Nykaa (High severity issue).
- Independent security bug hunting for Myntra, Postmates, Pepsico, Ebay, etc.

Education

Guru Gobind Singh Indraprastha University

Delhi, India

BACHELOR OF TECHNOLOGY (B.TECH), COMPUTER SCIENCE AND ENGINEERING

March 2014 - June 2018

- Overall percentage: 80.71
- Mentor to college students participating in Smart India Hackathon, 2019.
- Chairperson of Foreign & Education Cell created to guide juniors in technical growth and explore diverse fields of engineering.

Delhi Public School, Vasant Kunj

Vasant Kunj, Delhi

SCHOOLING

2012 - 2014

Research work & contributions

Monitoring and Filtering of Traffic Data using Big Data for DDOS

- DDoS mitigation measures using WAF and combined mitigation measures to provide an effective method of discovering common attack vectors affecting the system and evolving the mitigation strategy using big data and machine learning.
- Working with the Grace Hopper Foundation to provide mentoring and support to young females entering in the technical field to enhance their project ideas and help working on them.