

# Akshatha K

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## PROFESSIONAL SUMMARY

Cybersecurity professional with 2.6 years of experience specializing in secure software development, vulnerability management, and threat mitigation. Demonstrated success in improving product security by 25% and reducing risk exposure by 30% through robust security initiatives. Proven ability to drive compliance with industry standards, implement risk mitigation strategies, and foster cross-functional collaboration. Seeking to contribute to secure product development in future cybersecurity roles.

## KEY SKILLS

- Software Development Life Cycle (SDLC)
- Secure Software Development Life Cycle (Secure SDLC)
- Open-Source Vulnerability Management
- Threat Modeling & Risk Mitigation
- Web Application Security
- Penetration Testing & Network Security
- Risk Assessment & Security Documentation
- Compliance: PCI DSS, NIST, CIS
- Familiarity with OWASP Top 10

## TECHNICAL SKILLS

- **Security tools:** SD Element, Nessus, OpenVAS, Nmap, OWASP ZAP, Burp suite, Synopsys Detect(formerly BDH), Microsoft threat modeling, Wireshark, Metasploit
- **Project Management & Collaboration Tools:** JIRA, Bitbucket, TortoiseGit
- **Programming Languages:** C#, Java, SQL, Python
- **Operating Systems:** Windows, Linux

## PROFESSIONAL EXPERIENCE

Honeywell Tech Solutions Lab Pvt Ltd | Bangalore, IN

Sep 2021 - Mar 2024

Software Engineer I

- Spearheaded security efforts as a **Security Advocate** for two major product releases and 10+ critical patches, leading to a 25% improvement in overall product security
- Coordinated **penetration testing** efforts, collaborating with testing teams to identify vulnerabilities and ensuring remediation of key issues, which ensured 100% adherence to security standards
- Resolved critical vulnerabilities such as DLL hijacking and enabled Control Flow Guard (CFG), resulting in a 50% reduction in attack vectors and significantly improving system integrity
- Managed environmental scoring using **Black Duck Hub**, reducing risk exposure by 30% by addressing open-source vulnerabilities across multiple product releases
- Directed the integration of Allgovision, achieving 100% compliance and reducing risks by 15% for a secure product release
- Authored security documentation for teams and customers, ensuring 100% protocol adherence and improving customer satisfaction by 20% while reducing support requests by 15%

## PROJECTS

### Maxpro/Prowatch NVR & VMS

- Developed **zones and conduit diagrams** to visually depict system architecture, aiding in risk management and enhancing threat mitigation strategies during product development
- Aligned with **security architects** from inception to release, integrating 100% of security requirements into product design
- Engineered **threat modeling** to identify and assess potential security risks, facilitating informed decision-making during product design and development.

- Utilized **SD Element** to implement secure design principles throughout the development lifecycle, enhancing overall security posture.
- Synchronized with cross-functional teams to maintain security posture across 95% of related products and mobile applications, ensuring seamless integration and user experience

#### Allgovision Integration with Maxpro & Prowatch VMS

- Oversaw the successful integration of 3rd party product Allgovision with Maxpro, from initial planning to deployment, meeting all security requirements
- Executed comprehensive risk assessments in collaboration with internal and external teams, effectively mitigating 95% of potential security threats
- Created detailed **security documentation**, including risk mitigation strategies and compliance reports, to ensure alignment with security standards

#### INTERNSHIP

##### National Payment Corporation of India (NPCI)

- Conducted reviews of security policies based on **PCI DSS, NIST, and CIS frameworks**, refining password guidelines and enhancing overall security posture
- Performed malware analysis using **VirusTotal**, identifying 5 critical vulnerabilities and recommending actionable remediation strategies
- Drove penetration tests and executed SYN scans with **Nmap** to detect open ports and vulnerabilities

#### PROJECTS ON GITHUB

- Vulnerability Assessment and Penetration Testing (VAPT)  
Simulated a full VAPT cycle including scanning, enumeration, Nessus scanning, and exploitation using Metasploit.  
GitHub: [github.com/imakshathagowda/Vulnerability-Assessment-and-Penetration-Testing-VAPT](https://github.com/imakshathagowda/Vulnerability-Assessment-and-Penetration-Testing-VAPT)
- Exploitation Using Meterpreter  
Created and delivered payloads using Msfvenom + Apache2; achieved remote access using Metasploit.  
GitHub: [github.com/imakshathagowda/exploitation-using-meterpreter](https://github.com/imakshathagowda/exploitation-using-meterpreter)
- Ransomware Incident Playbook  
Documented incident response lifecycle for ransomware attacks — ideal for SOC or blue team reference.  
GitHub: [github.com/imakshathagowda/ransomware-incident-playbook](https://github.com/imakshathagowda/ransomware-incident-playbook)

#### EDUCATION

- Advanced Executive Program in Cybersecurity: IIITB September 2024
- Bachelor of Engineering (B.E) in Computer Science from VTU in 2021 with CGPA: 8.13
- 12th from New Baldwin, Bangalore in 2017 with percentage of 76.83 %
- 10th from Swamy Vivekananda School, Bangalore in 2015 with percentage of 90.40 %

#### CERTIFICATION

- (ISC)<sup>2</sup> Security Compass - Software Security Practitioner (Architect) - May 2023
- NPCI Cybersecurity Virtual Internship - September 2024
- Java Full Stack Training from Pentagon Space -2022
- Simplilearn certifications on Enterprise Infrastructure Security, Application and Web Application Security, Ransomware and Malware Analysis, Ethical Hacking and VAPT

#### AWARDS AND RECOGNITIONS

- Awarded **Bronze for Best Scrum Member** by driving a 30% team efficiency boost through JIRA-based sprint planning and urgency in Scrum practices
- Recognized with **Bronze Award for Commitment to Cybersecurity**: Adhered to strict cybersecurity protocols, ensuring compliance and reducing security risk