

# Shirsh Gupta

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## EXPERIENCES

Apr. 2023 - Present

Cognizant Technology Solutions

Security Engineer

- Worked in **Cognizant CIS team**, focusing on **Vulnerability Management** for client infrastructure using **Qualys** and **Rapid7 Nexpose**.
- Register the assets in the scanning tool and perform scanning as per the agreed schedule.
- Perform Vulnerability Management, including supporting scan tools, implementing vulnerability scans, performing analysis, recommending / tracking mitigation.
- Analyzed & validated** security vulnerability data to identify applicability, **false positives and exceptions**; recommended corrective actions and applied it on **Qualys** and **Rapid7 Nexpose** tools, ensuring the **generation of accurate vulnerability reports**.
- Automated processes**, including the **conversion of IP ranges to IP addresses** and the **segregation of IP addresses**, using '**Bash scripts**'.
- Managed the day-to-day triage of **cyber alerts**, **analyzing and prioritizing** threats/vulnerabilities using **VULNDB** and **Virus Total**.
- Coordinated with other teams to **mitigate security risks** and handle potential incidents.
- Managed and resolved Endpoint Incidents/Alerts** (such as **phishing attacks** and **blocked software installations**) reported on **MS Defender**.
- Validated and updated the **authentication records** to resolve the failure issues to conduct **authenticated vulnerability scans**.
- Developed option profiles and Static/Dynamic search lists** on **Qualys** for **customized scanning** based on Security team advisories.
- Tracked remediation of vulnerabilities** by using **agreed-upon action plans** and timelines with responsible technology developers and support teams.

Nov. 2020 - Mar. 2023

Infosys technologies Ltd.

Senior System Engineer

- Worked in Infosys **CyberSecurity Vulnerability Management** team collaborating with **Mercedes Benz & Daimler Trucks security teams** on **Vulnerability Management & Assessment** using **Qualys Cloud Platform & Qualys Agent**.
- Collaborated with Mercedes Benz Security team for **Qualys agent roll-out** activities on **servers** and **endpoint devices**.
- Possess strong knowledge and experience in **security assessment, vulnerability management, risk-based threat analysis, and security mitigation** techniques. Proficient in using tools like **Qualys Scanner and Qualys Agent**.
- Experience includes working with vulnerability management tools such as **Qualys Scanner and Qualys Cloud Agent**.
- Led a data analytics team**, creating a CISO Dashboard using **flowcharts, graphs**, and other visuals through **Python, SQL, and KPI templates** (prepared in **Excel and Python**).
- Utilized Infosys internal offering '**CyberGaze**' and **Jupyter Notebook** to generate visuals, providing key insights on Compliance and Operational KPIs.
- Analyzed projects related to **Vulnerability Management, Patch Management, Risk Management, SLA adherence, Software Currency**.
- Mentored junior team members** and provide guidance on **security best practices** and procedures

## SKILLS

**Languages:** Python3 (Scapy), Advance SQL, Bash Scripting, HTML5, CSS3, JavaScript, Node.js.  
**Tools:** Qualys, Nexpose, OpenVAS, Nikto, sqlmap, MS Defender, Wireshark, Nmap, Hashcat.  
**Platforms:** Ubuntu, Kali Linux, Windows.  
**Policies/ Frameworks:** GDPR, ISO/IEC 27001, PCI-DSS, HIPAA, NIST.  
**Relevant Skills:** Sniffing & Spoofing, DNS Based attacks, ARP Spoofing attack, Basic Networking, Shell Scripting, Governance, Risk Management, Compliance, Vulnerability Management, Data Analysis, programming & Scripting, Cloud Security

## CERTIFICATION & BADGES

Certification Name	Issued By	Links
Ethical Hacker	Cisco	<a href="#">Link</a>
Ethical Hacking Essentials (EHE)	EC Council	<a href="#">Link</a>
Specialist in Vulnerability Management	Qualys	-
Linux Essentials	Cisco	-
Networking Essentials	Cisco	<a href="#">Link</a>
ISO/IEC 27001 Information Security Associate	Skillfront	<a href="#">Link</a>
AZ-900 (Azure Fundamentals)	Microsoft Azure	<a href="#">Link</a>
Python Essentials-I	Cisco	<a href="#">Link</a>
CyberSecurity Essentials	Cisco	<a href="#">Link</a>
Qualys Cloud Agent	Qualys	-
Specialist in Assetview and Threat Protection	Qualys	-

## EDUCATION

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### Jul. 2023 - Present

Birla Institute of Technology and Science, Pilani

- a. *Master's Of Technology in Software Systems (Cyber Security)*
- b. **Percentage:** 80.5%

### Aug. 2016 - Sep. 2020

Dr. A.P.J. Abdul Kalam Technical University, Lucknow

- a. *Bachelor's Of Technology in Electronics & Communication Engineering*
- b. **C.G.P.A:** 8.25      **Percentage:** 82.5%
- c. *Worked in ESR Lab (Embedded Systems and Robotics Lab).*

### Aug. 2014 - Jul. 2016

M.P.V.M Ganga Gurukulam, Prayagraj

- a. *12th in Physics, Chemistry, Maths, English and Computer Science.*
- b. **Percentage:** 87.8%

### Jun. 2013 - Jul. 2014

M.P.V.M Ganga Gurukulam, Prayagraj

- a. *10th in Maths, Science, Social Science, Hindi, English and Information Technology.*
- b. **Percentage:** 96%

## HONORS

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- a. **Won 'Insta Award' in 2022** for excellence & on time delivery to Mercedes Benz and Daimler Trucks.
- b. **Won 'Insta Award' in 2021** for providing interesting insight using Visuals and insights (Using CyberGaze and Jupyter Notebook) on Project's compliance and operation to Mercedes Benz and Daimler Trucks security teams.
- c. **Won University State Level Mobile photography competition in 2020.**