**Shanu Khare**

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Pin code- 140413

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**OBJECTIVE**

To hold a responsible and challenging position in an esteemed major global organization that will enable me to resume my career as a successful Information Security Analyst where I can get the chance to grow and enhance my practical knowledge & utilize my technical skills towards the advancement of the organization of repute.

**PROFESSIONAL SYNOPSIS**

* **Currently working as an Assistant Professor at Chandigarh University**
* Having 2 years of experience in the field of training as a trainer or teacher in IT Brain Institute.
* Having 1 year of IT experience in the area of **Security testing** of Web Applications and **Networking.**
* Having good exposure on Security Testing Tools like, IBM Appscan, Burp Suite, Wireshark, Nmap, sqlmap etc.
* Good understanding of cryptography techniques.
* Good knowledge of security standards like OWASP TOP 10.
* Good knowledge of networking configuration like Router, Switches, Firewalls, UTM.
* Knowledge of Linux and windows.
* Knowledge of eProcurement Systems based on ISO 27001 controls with checklist for compliance (including CVC Guidelines) and GOI procurement procedures (GFR).
* Good Written communication skill.
* Excellent team player and ability to perform well under pressure.
* Responsibility of Experiential Learning Coordinator
* Responsibility of Project Coordinator
* Responsibility of Outcome Based Education Coordinator

**PROFESSIONAL EXPERIENCE**

Assistant Professor: August 2021-Till Date, Chandigarh University, Gharuan, Mohali, Punjab

* Cyber Security
* Blockchain
* Privacy Management
* Real Time System
* Cyber Law
* Creating a full content for the scheme
* Involved in Administrative work

Teaching/Trainer: April 2017-June 2019, IT Brain Coaching Centre, Rewa Madhya Pradesh

* Blockchain Concepts
* Cloud Computing
* Cyber Security
* Python Concepts
* C, C++
* HTML
* Basic Networking Concepts
* Advanced Networking
* Software Engineering
* Data Structure Concepts
* Network Security and Cryptography Concepts
* Auditing

Security Test Engineer: March 2016– January 2017, STQC IT Services, Ministry of Communication and Information Technology, Government of India, Bangalore.

* Performed web applications penetration testing of web application from the clients of organization.
* Provide network security through Penetration Testing and vulnerability Assessment to the clients of STQC-IT Services.
* Performed Security testing, Functionality testing and Performance testing of e-Procurement solution based on ISO 27001, CVC, GFR and IT-Act (2008) Guidelines.
* Performed manual testing through guideline of the STQC-IT services for some web sites.
* Teaching experience

**TECHNICAL PROFICIENCIES**

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| Platforms: | Windows 7/8/8.1/10, Linux (Cent OS, Ubuntu, Kali 2.0), Android |
| Networking: | TCP/IP, Basic knowledge of Routing Protocols, knowledge of Network security, SVN, IP configuration. |
| Languages: | HTML, Python, Shell Script, C, C++ |
| Tools: | IBM AppScan, Tenable Nessus Vulnerability Scanner, Burp Suite, Paros, Wireshark, Nmap, CSRF Tester, OpenVAS, VMware, VirtualBox, Microsoft Office Suite, Access, FTK, EnCase, OSForensics, Acronis True Imager, AXIOMv380, IUWEshare, android studio ide, maltego, smart phone forensics, StellarPhoenixMailRecovery etc. |

**Forensics:** Mobile forensics, Computer Forensics, Steganography, Network Forensic

Disk Imaging, File Carving etc.

**CAREER FEATURES**

***PhD***

*Pursuing from Chandigarh University (2022-till date)*

***Thesis M.Tech***

Topic- Implementation of Security in Cloud Computing

***Web Application Penetration Testing***

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| --- | --- | --- | --- |
| *Client* | | Anteras Systems Pvt.Ltd. | |
| *Application* | | TenderWizard Application | |
| *Responsibilities* | | Writing the test cases to base on the Risks of eProcurement Systems and related ISO 27001 controls and for e-Security Compliance (including CVC Guidelines). | |
|  | | Involved in *scanning of application through the IBM Appscan tool.*  Involved in verifying the vulnerabilities manually and by using some open source tools. | |
| *Client* | | Department of Industrial Policy and Promotion(DIPP),  Ministry of Commerce and Industry | |
| *Application* | | eBiz | |
| *Environment* | | Test environment | |
| *Tools Used*  *Responsibilities* | | IBM AppScan, Burp Suite, Paros, CSRF Tester.  The penetration testing has been carried out using standard automated tools and manual testing methods. The test simulates hacker’s attacking techniques to discover holes that may compromise the system. It has also been tried to intrude into the systems by using actual exploits, where possible, during the test. | |
| *Client* | | e-governance Karnataka | |
| *Application* | | e-District Prajaone | |
| *Environment* | | Test environment | |
| *Tools Used*  *Responsibilities* | | IBM AppScan, Burp Suite, Paros, CSRF Tester.  The penetration testing has been carried out using standard automated tools and manual testing methods. The test simulates hacker’s attacking techniques to discover holes that may compromise the system. It has also been tried to intrude into the systems by using actual exploits, where possible, during the test. | |
| *Client* | | Income Tax Department | |
| *Application* | | e-Filing Web Application | |
| *Environment* | | Test environment | |
| *Tools Used*  *Responsibilities* | | IBM AppScan, Burp Suite, Paros, CSRF Tester.  The penetration testing has been carried out using standard automated tools and manual testing methods. The test simulates hacker’s attacking techniques to discover holes that may compromise the system. It has also been tried to intrude into the systems by using actual exploits, where possible, during the test. | |
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**PUBLICATIONS**

* **Papers**
* Khare, Shanu et al. “Virtualization and Security in Cloud Computing.” (2020).
* Khare, S., Shukla, A.K. and Lakshmi, S.M., 2018. Blockchain: Security and Concerns.
* "A Survey On Source Camera Identification Using Image Features", International Journal of Emerging Technologies and Innovative Research (www.jetir.org), ISSN:2349-5162, Vol.5, Issue 12, page no.989-999, December 2018, Available :<http://www.jetir.org/papers/JETIREC06123.pdf>
* “The Analysis of Public Cloud”, Shanu Khare et al 2021
* Ketan, S. Khare, M. Kaur and T. Parashar, "Online Voting System," *2022 International Conference on Cyber Resilience (ICCR)*, Dubai, United Arab Emirates, 2022, pp. 1-7, doi: 10.1109/ICCR56254.2022.9995860.
* L. Singh, S. Khare, A. Parvez and S. Verma, "Research Paper on Path-finding Algorithm Visualizer," 2022 International Conference on Cyber Resilience (ICCR), Dubai, United Arab Emirates, 2022, pp. 1-4, doi: 10.1109/ICCR56254.2022.9995925.
* S. Sharma, S. Khare, V. Unival and S. Verma, "Hybrid Development in Flutter and its Widgits," 2022 International Conference on Cyber Resilience (ICCR), Dubai, United Arab Emirates, 2022, pp. 1-4, doi: 10.1109/ICCR56254.2022.9995973.
* K. Kishore, S. Khare, V. Uniyal and S. Verma, "Performance and stability Comparison of React and Flutter: Cross-platform Application Development," 2022 International Conference on Cyber Resilience (ICCR), Dubai, United Arab Emirates, 2022, pp. 1-4, doi: 10.1109/ICCR56254.2022.9996039.
* S. Khare, R. Sahay and R. Kumar, "Deployment of Blockchain in Cloud Computing- A Comprehensive Review," 2023 2nd International Conference for Innovation in Technology (INOCON), Bangalore, India, 2023, pp. 1-6, doi: 10.1109/INOCON57975.2023.10101317.
* S. Khare, M. L. Saini, “Blockchain: About and Application”, 2023 8th International Conference for Convergence in Technology (I2CT), Mumbai, India, 2023.
* Abhinav Chauhan, Aman Gupta, Bhagyansh Kumar and Shanu Khare, “Analysis For Designing A Symptom Based Health Improvement System Using Ml”, 2023 3rd International Conference on Pervasive Computing and Social Networking (ICPCSN-2023)- Accepted
* “The Comparative Analysis of Various Security Model used in Cloud Computing”, Shanu Khare, Rashi Sahay, International Conference on Advances in Computing and Data Sciences (ICACDS-2023)- Accepted
* “Heart Diseases Prediction Using Machine Learning”, Anuplal Yadav, Kamal Soni, and Shanu Khare, 14th International Conference on Computing Communication and Networking Technologies- 2023 (14th ICCCNT 2023)- Accepted
* “Advancements in Blockchain Intelligence: Unravelling the Potential of Distributed Ledger Technology for Enhanced Data Security, Privacy, and Trust”, Shanu Khare, and Payal Thakur, Hinweis Second International Conference on Advances in Software Engineering and Information Technology (ASIT) 2023- Accepted
* N. S. Talwandi, P. Thakur and S. Khare, "Object Detection Model for Tacking System Implemtation using Deep Learning Technique," 2024 IEEE International Conference on Computing, Power and Communication Technologies (IC2PCT), Greater Noida, India, 2024, pp. 748-754, doi: 10.1109/IC2PCT60090.2024.104862 27.
* N. S. Talwandi, A. Tripathi and S. Khare, "An Automatic Prediction of Elevator Capacity Using ML to Customize the Total Capacity," 2024 IEEE International Conference on Computing, Power and Communication Technologies (IC2PCT), Greater Noida, India, 2024, pp. 1405-1410, doi: 10.1109/IC2PCT60090.2024.104864 69.
* N. S. Talwandi, P. Thakur and S. Khare, "An Automatic Navigation System for New Technical Advanced Drones for Different Alpplications," 2024 IEEE International Conference on Computing, Power and Communication Technologies (IC2PCT), Greater Noida, India, 2024, pp. 736-741, doi: 10.1109/IC2PCT60090.2024.104865 24.
* N. S. Talwandi, S. Khare and A. L. Yadav, "SipSmart: Elevating Palates with Machine Learning for Wine Quality Prediction," 2024 International Conference on Emerging Smart Computing and Informatics (ESCI), Pune, India, 2024, pp. 1-5, doi: 10.1109/ESCI59607.2024.10497300.
* A. L. Yadav, S. Khare and N. S. Talwandi, "Cloud-Based Agricultural Monitoring System for Precision Farming," 2024 11th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions) (ICRITO), Noida, India, 2024, pp. 1-6, doi: 10.1109/ICRITO61523.2024.105222 52.
* Khare, Shanu and Thakur, Payal and Yadav, Kripa Shanker and Talwandi, Navjot Singh, Health Care Innovations With Blockchain (April 30, 2024). Available at SSRN: https://ssrn.com/abstract=4811911 or [http://dx.doi.org/10.2139/ssrn.4811 911](http://dx.doi.org/10.2139/ssrn.4811%20911)
* Khare, Shanu and Thakur, Payal and Yadav, Kripa Shanker and Talwandi, Navjot Singh, Scrutiny of Bribery using Data Science Techniques (April 30, 2024). Available at SSRN: https://ssrn.com/abstract=4811917 or http://dx.doi.org/10.2139/ssrn.4811 917
* **Book Chapters**
* Blockchain- Structure, Uses and Applications in IoT (Book- Blockchain Security in Cloud Computing, published- 2021)
* Challenges in Cyber Security- based Internet of Things [Blockchain-based Cyber Security: Application and Paradigms] Accepted in CRC Press Taylor & Francis Group
* AI in healthcare (In Process)
* **Patent**
* Patent 1- Published Named “Innovative Traffic Surveillance System designed and built on the ThingSpeak Web Server utilising Cybersecurity and IoT” [Position-3] Published Date- 19th May 2023
* Patent 2- Published Named “Using the Internet of Things, a system and method are developed for tracking patient vitals in real-time” [Position-1] Published Date- 19th May 2023

**CERTIFICATES**

* **FDP (Faculty Development Program)**
* FDP on Blockchain Technologies- Applications, Issues and Challenges sponsored by Ministry of Electronics and Institutes of Technology & Engineering, Mangalore during 21st February-2nd march, 2022.
* FDP on Machine Learning Fundamentals organized by Department of Computer Science & IT, Kathua Campus, University of Jammu during March 23-28, 2022.
* FDP on AWS Cloud Organized by AIT-CSE Chandigarh University during 13th January-17th January 2023.
* **Coursera Certificates**
* Introduction to Blockchain Technologies from coursera
* Securing Linux Systems from coursera
* Blockchain, Cryptoassets, and Decentralized Finance from courser
* Introduction to Supply Chain Finance & Blockchain Technology by New York Institute of Finance Coursera
* OWASP Top 10 - Welcome and Risks 1-5 from Coursera
* OWASP Top 10 - Risks 6-10 By InfoSec Coursera
* Introduction to Cybersecurity Tools & Cyber Attacks by IBM Coursera
* Penetration Testing, Incident Response and Forensics by IBM Coursera
* Industrial IoT Fundamentals on AWS by Amazon Web Service Coursera
* Ethical Hacking Essentials (EHE) by EC council Coursera
* Digital Forensics Essentials (DFE) by EC council Coursera
* Network Defense Essentials (NDE) by EC council Coursera
* Cybersecurity Attack and Defense Fundamentals by EC Council Coursera
* Palo Alto Networks Cybersecurity Foundation by Palo Alto Networks Coursera
* Introduction to Cyber Attacks by New York university courser
* Blockchain Security by InfoSec Coursera
* Cloud Top Ten Risks by University of Minnesota Coursera
* Cloud Application Security by University of Minnesota
* Network Security & Database Vulnerabilities by IBM Coursera
* **Publication Certificates**
* International Semantic Intelligence Conference 2021
* International Conference on Emerging Trends in Engineering, Science and Technologies (ICETEST-2020)
* 2nd International Conference on Innovation in Technology (INOCON-2023)
* 8th International Conference for Convergence in Technology (I2CT)

**AWARDS & ACHIEVEMENTS**

* ABET Accreditation- Dec 2022
* Best Innovator-2023 (Departmental-Project Based)

**EDUCATIONAL QUALIFICATION**

* PhD pursuing in Cyber Security from Chandigarh University (2022-till date)
* PG in Information Security and Cyber Forensics from Lovely Professional University (2019-2021) with 9.18 cgpa.
* PG-Diploma in IT Infrastructure System & Security from CDAC E-city Bangalore in Feb 2016.
* B. E. in Computer Science& Engineering from Rajiv Gandhi Prodyogiki Vishwavidyalaya Bhopal (Madhya Pradesh) in 2013 with CGPA 7.61.
* HSC from Saraswati Higher Secondary School, Rewa (M. P.)
* SSC from Saraswati Higher Secondary School, Rewa (M. P.)

**Personal Details:**

Father’s Name : Mr. Sunil Kumar Khare

Mother’s Name : Mrs. Nisha Khare

Date of Birth : 18/10/1992

Gender : Female

**Declaration**:

I hereby declare that above information is correct to the best of my knowledge and belief.

**Place:** Chandigarh, Punjab **Shanu Khare**