

Samridhi Agarwal

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Me With Tech

TECHNICAL SKILLS

- Cyber Security Risk Management
- IS Infrastructure Review
- Vulnerability Assessment
- Data Visualisation
- VBA process automation
- Data Analytics
- Network Security Assessment
- Web Development (Cactus, Django)
- **Programming Languages**
 - C, C++, Python, R, Lisp
- **Applications**
 - Tenable Nessus, Nmap, Zmap, Kali Linux, Burp Suite, Wireshark, Metasploit-framework, SSL Scan, Knime, Alteryx

PROFESSIONAL EXPERIENCE

Deloitte USI (Offices of US in India)

Mumbai, India

Cyber & Strategic Risk Advisor

November 2021 – Present

- Security maturity assessment to assess the security posture over the global markets (140 countries)
 - Evaluated the security controls implemented by the client, referencing the National Institute of Standards and Technology (NIST) security framework, and assessing technology ecosystems for each market to ensure compliance with industry best practices.
 - Identified the cyber security capabilities, vulnerabilities, and gaps in the categorization of impact and terms of people, process, and technology. Provided recommendations to remediate identified capability gaps.
 - Determined that an automated process would generate the most consistent, accurate information for our client and developed new macro scripts that automated the assessment process, lowering the time needed per report and increasing its overall accuracy.
 - Led the effort to comprehensively assess security risks across 10 countries by holding meetings with stakeholders, conducting a country-by-country assessment of each market's security posture, testing for evidence of vulnerabilities and strengths, and creating a mitigation roadmap for future incidents.
 - Served as primary liaison for the execution of all penetration testing activities, to ensure that definition of scope was communicated clearly, enabling business partners to effectively manage requirements.
 - Assisted 3 professionals to align with the project.
- Spearheaded efforts to enhance the security protocols of a UK-based organization, specifically focusing on enhancements surrounding compliance with ISF SOGP Information Security 2020.

PricewaterhouseCoopers Pvt. Ltd.

Mumbai, India

Cyber Security Associate

August 2019 – November 2021

- CBS Data Migration Security Review & Data Analytics
 - Performed a CBS data migration audit for a leading PSU bank to ensure 100% user data migration, migrating over 2.5 crore users into a new CBS platform.
 - Assessed real-time user data for critical points integration over 100% testing to ensure data integrity.
 - Designed the major workflows from scratch for the huge data assessment.
 - Engineered and implemented complex workflows for data assessment, including data sanitization, mapping data relations, finding the Unique ID to even create the unique ID from the given data, and analyzing data located on multiple platforms.
 - Worked extensively with Business, IT and Risk/Compliance groups to identify the scope and method for risk assessment and management, including discussions with CA and bank accountants to determine the impact of risks on the organization.
- Reviewed configuration settings of servers, operating systems, and databases to identify security gaps.
- Performed vulnerability scans on production servers and conducted security audits on internal systems for two of the leading Public Sector Undertakings in India.
- Performed Forex Migration Audit using a data analytics tool to identify the security gaps.

- Carried out a thorough review of IT infrastructure and controls, by identifying control gaps in network segmentation, rogue account detection, and unauthorized user access. Conducted gap analysis of current and proposed architecture, with recommendations to improve security posture.
- Assisted UPI Scalability and resilience review and Comprehensive review of IT Infrastructure.
- Trained and mentored 3 professionals on the assessment review process and workflow designing, ensuring all project phases were delivered and completed on time, meeting or exceeding all performance metrics.

CERTIFICATIONS

Certified Ethical Hacker CEH v12	Ongoing
Vulnerability Analysis Course for Ethical Hacking	October 2022
ISO/IEC 27001:2013	August 2021
Learning Data Visualisation	May 2021
Learning the OWASP Top 10	May 2021
Introduction to Cybersecurity – Cisco	May 2021
CompTIA Security+ 501	January 2021
Data Science with R	January 2021
Application of Python3	January 2019

EDUCATION

MKSSS's Cummins College of Engineering for Women, Savitribai Phule Pune University	Pune, India
<i>Bachelors of Engineering, Electronics & Telecommunication (GPA: 7.56)</i>	April 2015 – June 2019

GRADUATE STUDENT –

Project Works:

- Speech Synthesis Model (Hindi Language) - Final Year Project August 2018
 - Published technical paper on the Speech Synthesis model for Hindi Script using the Festival Framework, which is based on the syllable segmentation method in IRJET (International Research Journal of Engineering and Technology).
 - Built text-to-speech (TTS) system using concatenative speech processing, including a syllable-based TTS system that takes text file input from the user and gives output in audio form considering all the dialects.
- Machine learning model for classifying Mobile Prices December 2017
 - Developed a regression model using pandas and NumPy (linear algebra library) to predict the ideal price point of mobile phones based on various features such as screen size, camera resolution, RAM, and battery life.
- Smart Garbage Monitoring System (IoT Project) April 2017
 - Implemented a real-time waste management system, designing smart dustbins to check the level of the dustbin (filled-up ratio) and alert waste collectors to empty bins.
 - Installed waterproof sensors to detect garbage levels in trash bins, logging data in a centralized portal to design the most effective paths to collect garbage.

VOLUNTEER EXPERIENCE

- Volunteered to lead cybersecurity awareness sessions for students at a local elementary school, instructing them on topics such as internet safety, social media best practices, identity theft prevention tactics, and cybersecurity bullying issues and preventative measures.
- Volunteered for PyCon Pune International Conference, presenting on behalf of the Pyladies Group, an international organization that fosters female participation in Python coding.
- Infused JavaScript programming with my passion for art and created a collection of NFTs (non-fungible tokens). Talked about my project on open-source platforms and encouraged others to contribute to the blockchain.
- Active member of Pyladies Pune group, where I presented my projects in meetups and blogged about the same in the Python Programming community.
- Led coding club activities, including organizing and leading seminars for juniors.
- Conducted Python 101 sessions for the juniors and professors at the Cummins College of Engineering.
- Organised hackathons in collaboration with wiki for students and IT professionals to brainstorm technology trends and innovations.
- Organized departmental and academic symposiums, inter-collegiate seminars, and team-building activities.