# Sarika Singh

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## EDUCATION

**Texas A&M University, Mays Business School**                                       College Station, Texas
*Master of Science in Management Information Systems* | GPA:3.6/4.0                             May 2020

**Hemwati Nandan Bahuguna Garhwal University**                                               Dehradun, India
*Bachelor of Technology in Electronics and Communication* | GPA:3.3/4.0                        June 2008

## SKILLS

**Languages:** Python, .NET 3.5, Java, HTML5, CSS, JavaScript, jQuery, Bootstrap, COBOL, JCL, CICS
**Databases:** MySQL, Microsoft SQL Server 2008, MariaDB, MongoDB, Microsoft Access, DB2
**Tools and Techniques:** Amazon AWS, Penetration testing, Kali Linux, Metasploitable2, Nmap, Unicornscan, SPARTA, Uniscan, Owasp ZAP, VirtualBox, Cryptography, Steganography, OpenStego, JIRA, Git**,** BMC Remedy
**Coursework:** Business Information Security, IT Security & Controls, Advanced Database, Data Warehousing
**Certifications & Training**: CISSP Cert Prep: 8 Software Development Security: LinkedIn Learning
AWS Certified Developer-Associate (Validation Number 3FXJ4DVKG211QR3E, Expires on 16 Aug 2022)

## EXPERIENCE

**Academic Project: Business information security (ISTM 635)**                           Jan 2019-May 2019
- Performed security risk assessment of the AMC hospital case, identified and classified key assets, described criteria to rank assets, vulnerability and threat identification, cybersecurity risk estimation and impact estimation to create the risk matrix for the assets, cybersecurity risk management strategy
- Identified relation between encryption price and effectiveness by calculating asset value, exposure factor, single loss expectancy, annual rate of occurrence, net risk reduction benefit for organization's laptops
- Performed penetration testing on UP government website by scanning ports, OS fingerprinting and packet search analysis; Audited and documented vulnerability remediation using NIST.gov reports and coordinated with the process owner

*RMS TechnoSolutions (INDIA) Private Limited*                                                    Delhi, India
*Team Lead/Consultant*                                                                August 2014 – April 2018
- Deployed applications in AWS cloud using Elastic Beanstalk; managed user groups and monitored access.
- Used AWS Key Management Service for encryption of objects on Amazon S3; used AWS STS to retrieve credentials and impersonate the IAM role; used AWS Parameter Store for secrets management
- Achieved the highest level of customer satisfaction (5/5 customer rating) by client for deployment of ITSM solutions, adherence to data security norms and validated role-based access control (RBAC) policy implementation
- Provided risk advisory services to key incidents on the evaluation of risks, development of incident responses, and work with stakeholders to define and implement process enhancements as needed
- Worked as Defect manager; Ensured resource availability, maintained event logs and ensured 100% requirement coverage across teams in different countries

*Infosys Limited*                                                                               Pune, India
*Technology Analyst*                                                           November 2008 – July 2014
- Analyzed trend of issues for American healthcare client and created a Rexx automation tool to automatically delete the duplicate files for each batch run. This improved the team's productivity by 75%
- Resolved production issues by working as a part of defect prevention team. Identified root causes and documented corrective processes which resulted in reduction of recurring issues by 90%
- Identified and automated 5 frequently occurring incidents issues which improved the team efficiency by 80% and earned a perfect (7/7) client service score
- Saved up to $20k/quarter on change requests by thorough unit testing and increasing code coverage to 95%