Vishal Maurya

Boston, MA, 02120 | maurya.v@husky.neu.edu | (914)-484-8557
Linkedin | Github | Available : May - December 2020

EDUCATION

Northeastern University   **Boston, MA**
Khoury College of Computer Sciences   *September 2019 - Present*
Candidate for a Master of Science in Cybersecurity and Information Assurance
Related Courses : Computer System Security, Foundations of Information Assurance

Savitribai Phule Pune University   **Pune, India**
Bachelors of Engineering in Computer Science   *June 2013 - May 2017*
Related Courses : Computer Forensics and Cyber Applications, Computer Networks, Data Communication and Wireless Sensor
Networks, Operating System Design and Application

TECHNICAL KNOWLEDGE

Certification :	*AWS certified Solutions Architect Associate [Credential ID LRGTE35C12QE19CR]*
CI/CD Tools :	Chef, Jenkins, Bamboo, Capistrano
Virtualization :	Vagrant, Docker, Docker Swarm
Web servers :	Nginx, Apache2(httpd)
Application servers :	Nginx, Tomcat, PHP-FPM, Unicorn, Puma, Passenger
Network Security :	Wireshark, John the Ripper, Ncrack
System Security :	Burp Suite, Snort, Nmap, ClamAV
Database Servers :	Mysql, PostgreSQL, MariaDB
Operating Systems :	Ubuntu, Windows, Cent OS, Kali, REHL
Programming Skills :	C, Bash, Java, Python, Ruby, Javascript
Public Cloud Services :	*Amazon Web Services* : Web Application Firewall, IAM, Route 53, ALB, ELB, VPC, EC2, ECS, EFS, S3, Redshift, RDS, Glue, Lambda, Athena, Cloudfront, Lightsail, Key Management Service, Certificate Manager, Secrets Manager, Elasticache, SNS, SES, Cloudwatch, Cloudtrail, Code Build, Deploy. *Azure* : VM, VPN. *Linode, Rackspace*
Config Management :	Terraform, Puppet

WORK EXPERIENCE

Webonise Lab   **Pune, India**
DevSecOps Engineer   *June 2017 - July 2019*
- Implemented **Burp suite and integrated it with Jenkins, to run scheduled application security testing** and get a vulnerability report, which helped the firm to provide HIPAA compliance.
- Architected new container based central deployment model using AWS Code build, Code Deploy, and Jenkins, which decreased the code deployment time by 65% and now used by the firm on every project.
- Devised a new system for automated notification when health of any AWS resource degraded with the help of AWS SNS, AWS Cloudwatch, AWS Lambda, and Pagerduty which **increased the availability of web application by 35% due to which company could now claim to provide 99% uptime**.
- Developed **serverless functions using AWS Lambda and Python, also configured modules using Puppet** for configuring web, application, and database servers like nginx, apache2, puma, php-fpm, mysql, postgresql, mariadb and securing infrastructure with Snort and ClamAV which portrayed my extraordinary performance due to which I received sponsorship to prepare and appear for AWS certified solutions architect associate.
- Designed and implemented new policies for **end to end encryption using AWS KMS**, installing SSL certificates between Web Application - End User and WebApplication - Database (AWS RDS).
- Written **serverless functions in python on AWS Lambda for taking scheduled EC2 AMIs and RDS snapshots** along with deleting the ones older than 30 days, **this helped the company save $800 per month on the AWS bill**.

ACADEMIC PROJECTS AND PUBLICATIONS

- Created Shell Script for Cracking passwords using Openssl to generate hashed passwords with salt and match it with the entry in unshadowed file in multithreading [Link].
- Created Shell Script for Encrypting file as per CIA triad using Openssl to hash and encrypt plaintext using AES with a 256 bit random secret key and then signing it with the sender's private key, the secret key itself is hashed, decryption can be done with the receiver's private key and the sender's public key [Link].
- Real Time Vehicle density based Traffic Signal Scheduling : International Research Journal of Engineering and Technology [Link]
- Smart Traffic Management System Using Resource Sharing : International Research Journal of Engineering and Technology [Link]

EXTRACURRICULAR

Information System Security Association - Northeastern University Student Chapter   **Boston, MA**
Volunteer - Delivered hands on workshops on docker to students.   *September 2019 - Present*
Association for Computing Machinery - Pimpri Chinchwad College of Engineering   **Pune, India**
Vice President - **Best student chapter in India 2nd prize**   *August 2015 - June 2016*