Syed Mohammad Ibrahim

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EXPERIENCE

NVIDIA Corporation — Adelphi, USA
Information Security Analyst Intern — *May 2022 – Aug. 2022*
- Implemented Security Control Automation Framework
- Developed a process for code development and quality assurance
- Assisted with Compliance Monitoring and Reporting

Fraunhofer Center Mid-Atlantic (CMA) — Adelphi, USA
Software Engineer Intern - Part Time — *Jan. 2022 – May 2022*
- Worked on developing REST API's for backend using Flask
- Implemented the architecture to interact with AWS Dynamo DB using Python's Boto 3 library
- Used PyTest to perform unit and functional testing for the applciation
- Implemented AWS Cognito login authentication on server side

Poshmark — Chennai, India
Senior Software Engineer - I — *Apr. 2021 – Aug. 2021*
- Worked on building the infrastructure for the Milestone project with the help of utilities like RabbitMQ, MongoDB, and Sidekiq
- Branch.io deep linking and universal linking enhancements
- Worked on upgrading static code linter - Rubocop

Software Engineer - II — *Jul. 2020 – Mar. 2021*
- Migrated AppsFlyer SDK triggered tracking events to GTM based tracking events on iOS
- Implemented OAuth 1.0 and OAuth 2.0 protocols for connecting external services like Pinterest, Twitter, Tumblr, etc
- Improved the effectiveness of RSpec test cases by migrating to the new "expect" syntax from the "should" syntax
- Worked on implementing the shipping promo feature for guest checkout flow

Software Engineer - I — *Nov. 2018 – Jul. 2020*
- Migrated the code for Ad Partners tracking from Server to Google Tag Manager (GTM)
- Enhanced the Posh Influencer and Posh Ambassador programs along with the usage of Cron Jobs
- Built the infrastructure for generating Image Sitemaps for indexing

Tata Consultancy Services — Chennai, India
Assistant System Engineer — *Jul. 2018 – Nov. 2018*
- Developed search functionality for the client's enterprise iOS App
- Built the native iOS unit testing framework to perform Test Driven Development (TDD)

Assistant System Engineer - Trainee — *Aug. 2017 – Jul. 2018*
- Trainee in Automation and Manual testing.
- Worked on various kinds of test suites like selenium, HP Quick Test Pro, etc
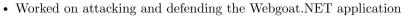- Learned Swift 4 as part of the iOS development project that I was assigned to

PROJECTS

Avionics Dash Server | *Python, Flask, MongoDb*
- Developed the backend for Avionics Dash using Flask REST Api's
- Deployed the application on https://app.koyeb.com for client access
- Implemented security features like password hashing, session based authentication using JWT, and more
- Configured CI/CD pipelines for robust development and response

Secure Code Review
- Performed Secure Code Review on Open-Source Project Sonarr
- Wrote a report on the Common Weakness Enumeration's (CWE's) found during the review
- The Report outlines all the tools used in complement with the manual code review process.

Secure Web Application | *.NET Framework 4.7*
- Worked on attacking and defending the Webgoat.NET application
- Reported Common Weakness Enumeration (CWE) for all exploits performed as an attacker
- Secured the application for respective CWE's with best practices as a developer

Penetration Testing | *MySQL, Ubuntu 14.04, Windows 7 SP 1, Windows Server 2016, Wordpress Website*
- Performed penetration testing on various applications and operating systems
- Exploitation techniques involved, but not limited to, Cross-Site Scripting (XSS), SQL Injection, MS17_010 Eternal Blue, Cowroot, Privilege Escalation, Buffer Overflow, etc.
- Used Open Source Intelligence (OSINT) for reconnaissance and identifying attack vectors
- Few of the tools involved in the process are NMap, Searchsploit, Metasploit, Hashcat, Burp Suite, etc.

Full List of Projects

EDUCATION

Master of Engineering in Cybersecurity (3.8/4.0)   College Park, USA
University of Maryland, A. James Clark School of Engineering   *Aug. 2021 – Dec. 2022*

Coursework:
- Introduction to Secure Coding
- Hacking of C Programs and Unix Binaries
- Security Tools for Information Security
- Digital Forensics and Incidence Responses
- Cloud Security
- Penetration Testing
- Secure Operating Systems
- Network Security
- Software Implementation and Design
- Introduction to Machine Learning

Bachelor of Engineering in Computer Science (7.54/10.0)   Bhopal, India
RGPV University, Lakshmi Narain College of Technology and Science   *Jun. 2013 – May 2017*

TECHNICAL SKILLS

Languages: Ruby, Python, C/C++
Frameworks: Ruby on Rails, Cucumber, RSpec, XCode Test Suite, Flask
Databases: MongoDB, Amazon Redshift, AWS Dynamo DB
Developer Tools: Git, Vagrant, Google Tag Manager
Network & Pentesting Tools: Hashcat, Burp Suite, AFL, NMap, Hydra, Dig, Searchsploit, Wpscan, Metasploit, Wireshark, Nessus

LEADERSHIP AND ACTIVITIES

Bit Camp, Hackathon   College Park, MD, USA
Mentor   *Apr. 2022*
Primary responsiblity involved assisting the hackers in unblocking their technical road blocks by providing insights on their desired tech stack

Technica, Hackathon   College Park, MD, USA
Mentor   *Nov. 2021*
Mentored at the hackathon for under-represented genders and helped out participants with their projects and ideas

Rotaract Club of East Kolkata   Kolkata, India
Participant   *Jul. 2020*
This is an NPO that works for the welfare of society and participates in social activities like educating the underprivileged, raising funds, etc. I participated in one such activity where they were raising funds for the needy by organizing an excel workshop for a nominal charge

EXTRA-CURRICULAR ACTIVITIES

- **Professional Learning**: Studied multiple courses from various MOOC platforms like Coursera and edX under domains like Cybersecurity and Programming.

- **Sports**: Ran a 10km marathon organized by Decathlon - Run for your loved one.