

# Syed Mohammad Ibrahim

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## EDUCATION

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### Master of Engineering in Cybersecurity (4.0/4.0)

University of Maryland, A. James Clark School of Engineering

College Park, USA

Aug. 2021 – May 2023 (Exp.)

#### Coursework:

- \* Introduction to Secure Coding
- \* Penetration Testing
- \* Hacking of C Programs and Unix Binaries
- \* Secure Operating Systems
- \* Security Tools for Information Security
- \* Network Security

### Bachelor of Engineering in Computer Science (7.54/10.0)

RGPV University, Lakshmi Narain College of Technology and Science

Bhopal, India

Jun. 2013 – May 2017

## PROJECTS

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### Employee Management System | ASP.NET Core, C#, Microsoft Security Libraries, MongoDB



- A portal for managing employees with primary focus on security details
- Implemented logging, password hashing and salting, AntiXss Sanitization and Sessions as part of the project
- Areas covered in the project are Input Validation, Cryptography, Authentication & Authorization, Session Management, Error Handling, Logging and Debug

### Blowfish Cipher | Python



- Minor project on analysis and implementation of blowfish cipher for password encryption
- A terminal based program that accepts a password as input and saves it as a cipher text in a file

### RSA Cryptographic Algorithm | Python



- RSA Algorithm for message encryption using block cipher
- Accepts a plain text message via terminal or file as input and outputs an encrypted message

### Full List of Projects



## EXPERIENCE

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### 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
- Revamped the whole external partner's infra for readability and removed redundancy for ease of understanding
- Worked on migration of the Share Settings page on the web from Rails to Vue.js and respective APIs
- Participated in Game Hackathon organized by Poshmark where the goal was to create a small game with a team

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
- Migrated the usage from bit.ly generator service to branch.io service for generating short URLs
- Participated in the Hackathon organized by Poshmark to work as a team and built a Chatbot using Dialogflow and Crickinfo API
- Participated in the Hacktoberfest 2k18 and created multiple open-source pull request changes to different libraries

## Tata Consultancy Services

Chennai, India

*Assistant System Engineer*

*Jul. 2018 – Nov. 2018*

- Part of TCS Interactive, a research-based unit
- Developed search functionality for the client's enterprise iOS App
- Hosted a tech session for the team on Django as a development framework
- Upgraded the iOS App with new models and designs as per the client's requirement using Swift 4
- 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
- Worked on Front-end development as the final project for the training
- Learned Swift 4 as part of the iOS development project that I was assigned to

## TECHNICAL SKILLS

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**Languages:** Ruby, Python, C/C++, Swift

**Frameworks:** Ruby on Rails, Node.js, Cucumber, RSpec, XCode Test Suite

**Databases:** MongoDB, Amazon Redshift

**Developer Tools:** Git, Docker, Vagrant, Google Tag Manager, Jenkins

**Network & Pentesting Tools:** Hashcat, Burp Suite, AFL, NMap, Hydra, Dig, Searchsploit, Wpscan, Metasploit, Wireshark

## LEADERSHIP AND ACTIVITIES

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### Technica, Hackathon

College Park, MD, USA

*Mentor*

*Nov. 2021*

Mentored at the hackathon for underrepresented genders and helped out participants with their projects and ideas

### Rotaract Club of East Kolkata

Kolkata, India

*Participant*

*July 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 nominal charge

### RAAHAT, Be The Change Maker

Bhopal, India

*Volunteer*

*Sep. 2013 – Apr. 2014*

Volunteered for various events related to child welfare and helping out senior citizens at Old Age homes

## EXTRA-CURRICULAR ACTIVITIES

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- **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.