Manish Malik

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EDUCATION

MASTERS IN COMPUTER SCIENCE
Expected August 2019 | Online
College of Computing
Georgia Tech.
Georgia Institute of Technology

PROFESSIONAL CERTIFICATE
Expected August 2017
Advanced Computer Security
Certificate
Center for Professional Development
Stanford University

B.TECH IN COMPUTER ENGINEERING
July 2016 | Delhi, India
Faculty of Engineering
And Technology
Jamia Millia Islamia
GPA: 8.77/10.0

CLASS 12
2012 | Delhi, India
Aggregate percentage: 87.6/100

CLASS 10
2010 | Delhi, India
Aggregate CGPA: 9.0/10.0

LINKS

Github:// **manishmalik**
LinkedIn:// **manishmalikkvs**

SKILLS

PROGRAMMING

Over 5000 lines:
C • JavaScript • C++ • HTML

Over 1000 lines:
Python • Matlab • CSS

Familiar:
Shell • Assembly • LaTeX • MySQL

EXTRA CURRICULUM

• 2015 College Representative at Entrepreneur Cell IIT-Bombay

• 2013-2014 Organized LAN Gaming event in College Fest

EXPERIENCE

ADOBE SYSTEMS SOFTWARE ENGINEER
Jul 2016 – Present | Noida, India
- I am primarily working with Adobe Analytics team. More specifically I am working under data migration team of Adobe Analytics.
- My work is to improve the quality of the migrations, in doing so I wrote several tools (in Python and Node.js to validate and detect the migration errors or presenting PoC for different technologies, which could improve validation process.
- Also worked on building internal tools which are used in CI and CD.

MODSECURITY GOOGLE SUMMER OF CODE | OPEN SOURCE DEVELOPER
May 2016 – Aug 2016
- ModSecurity (which is written in C/C++) is an opensource org. which provides web application firewall. Recently, ModSecurity has been redesigned from the scratch and split into cores and connectors.
- My work was to create a robust connector for ModSecurity in Nodejs, as there aren't many WAFs available for Nodejs.

WISHUP FULL STACK DEVELOPER INTERN
Dec 2015 – April 2016 | Delhi, India
- I was actively involved in the team which was building the real-time chatting dashboard (using sails pubsub support and socket.io).This dashboard handles over +15k active monthly users.
- The back-end was built using modern MVC framework Sails.js which based on Node.js and dashboard built using Angular.js.

RSPAMD GOOGLE SUMMER OF CODE | OPEN SOURCE DEVELOPER
May 2015 – Aug 2015
- Rspamd (which is written in C) is an opensource org. for spam filtering. It comes up with a web interface which doesn't support encryption at all.
- My work was to encrypt the controlling messages from its web interface.I implemented cryptobox in JavaScript on the top on tweet-nacl.js and have secured it against some common MiTM attacks such as replay attacks.

PUBLICATIONS

[1] M. Ahmad and M. Malik. Design of chaotic neural network based method for cryptographic substitution box. IEEE-Xplore, 2016.

[2] A. Chopra, M. Ahmad, and M. Malik. An enhanced modulo based image encryption. IEEE-Xplore, 2015.

PROJECTS

GENERATION OF NEW S-BOX RESEARCH PROJECT | JAMIA
Aug 2015 - Present | Delhi, India
Substitution boxes are commonly used as an only non-linear part in most of the block cipher. In this project we are developing new S-box using chaotic neural network.

VOICE CLASSIFICATION COMPUTER NETWORK LAB | JAMIA
Jan 2015 - April 2015 | Delhi,India
In this group project we created a toolkit to detect Age and Gender from the voice which was sent over network.

CERTIFICATIONS

| 2014 | Coursera-Stanford | Cryptography I |
| 2014 | IIT Madras | Programming,Data Structures and Algorithms in C |