Tarun Rajkumar

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Education

M.TECH IN INTELLIGENT SYSTEMS | 2019 | NATIONAL UNIVERSITY OF SINGAPORE
· Specializing in Machine Learning

BACHELOR OF SCIENCE | 2016 | CHRIST UNIVERSITY
· Major: Computer Science   Minor: Mathematics & Electronics

Certification
· Certified Ethical Hacker - ECC6295381074

Skills & Abilities

PROGRAMMING LANGAUGES
· Python, Java, PowerShell, Shell Scripting, PERL, MATLAB, C, C++, JavaScript

MACHINE LEARNING CONCEPTS
· Search Algorithms, Fuzzy Search.
· Linear Regression and Logistic Regression
· Decision Trees, KNN, K-means, Bayesian Classification, SVM
· Dimensionality Reduction, PCA & LDA
· Neural network (MLFF, Radial Basis. SOM)
· Deep Learning (CNN, LSTM, RNN, Ensemble Models)

TOOLS
· Python Machine Learning libraries such as TensorFlow using keras, scikit, numpy, pandas
· Rule-based and workflow management systems like Drools, JBPM.
· Information Security tools: Metasploit, Nmap, Wireshark, Burp Suit, Snort, Nessue.
· Monitoring tools such as ELK, Cisco AMP, Recorded Features.
· Systems Administration tools: Group Policy management, Active Directory, Exchange Management, IBM LSF.

Experience

SYSTEMS ADMINSTRATOR – SECURITY ANALYST | D E SHAW PVT LTD | 2016 SEPTEMBER-PRESENT
· Handling security incidents like Phishing, Malware, & Data Leak
· Evaluating security concerns of any third-party applications.
· Unix Administration
· Internal tools development in Python & React.
· Information security trainer for System Administrators.

PRODUCT ENGINEER | ILANTUS TECHNOLOGIES PVT LTD | 2016 APRIL-AUGUST

· Designed and implemented feature additions onto company's in-house flagship product, SXP.
· Code reviewer for feature additions onto SXP
· Implemented POC for SXP on Android

Projects

· **ChatBot for EventFinda.sg**
  As part of coursework at NUS, Ddsigned and developed a chatbot to help ease interaction with the website and provide better integration to platforms as such google assistant, Facebook Messenger, Slack etc. [https://github.com/t-rkr/CGS-Project_EventFindaBot]
· **Phishing mail analyzer/responder**
  As part of transitioning into infrastructure security, enhanced a tool that analyzes a reported phishing email by checking contents of it against URLScan.io, Hybrid-Analysis, VirusTotal & MXToolBox.
· **Operations Dashboard:**
  Created a web-portal that collates all necessary tools required for smooth operations of helpdesk.
· **3D Printed robotic arm:**
  Designed and developed a life-size 3D printed prosthetic arm that was interfaced through Arduino Uno and had input options ranging from keyboard commands, voice commands & gesture commands.

Leadership & Honors

· Mentor for a team of 10 at D.E Shaw Pvt Ltd.
· Secured 2nd prize in D.E Shaw Pvt Ltd hack-a-thon for log aggregator and analyzer.
· Student Placement co-ordinator for BSc, Christ University ,2016.
· Secured 1st prize in science exhibition for 3D printed prosthetic arm, Christ University, 2016.
· Secured 2nd prize in National Cyber Olympiad, Kendriya Vidyalaya.

Hobbies

· CaptureTheFlags - pwning boxes in HackTheBox & VulnHub .
· Competitive programming - topcoder, codeChef .
· Computer/Console gaming
· Cooking