Jialin Xu

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- 2016-2018 Carnegie Mellon University, Master of Science in Computer and Information System, Pittsburgh.
- 2016-2018 University of Hyogo, Master of Applied Informatics, Kobe.
- 2011-2015 Beijing University of Posts and Telecommunications, Bachelor of Engineering, Beijing.

Intern

- Aug. 2016 **Security Audit Intern**, RAKUTEN, Tokyo, Japan.
 - o Accomplished penetration live tests on Rakuten's "Food Avenue" project.
 - o Conducted live tests aimed at the OWASP top 10 web vulnerabilities.
 - Applied daily security auditing on Rakuten's websites.
- Apr.2015- Software Engineer Intern, ROCKCHIPS ELECTRONICS CO., LTD, Beijing, China.
- Feb.2016 \circ Developed a module application for recording selling report, customers' information on iOS device.
 - o Built a parser model based on RapidXml library to read pre-defined format data.
 - o Comprehensively conducted data analysis on customers' preference survey results using R.
- Sep.2014- Research Intern, UNIVERSITY OF HYOGO, Kobe, Japan.
- Dec.2014 o Created a model to analyze Data Breach Incidents via R from longitudinal, geographical angle.
 - o Conducted simulation of privacy negotiation process and optimized the strategy to achieve agreements.
 - o Reclassified Android threat and proposed mitigation strategies.
- Jun.2013- Research Intern, TSINGHUA UNIVERSITY, Beijing, China.
- Sep.2014 o Enhanced dynamic detection algorithm focusing on pedestrians and automobiles.
 - Achieved the basic automatic recognition of lane, guide board and pedestrian.
 - o Developed a rudimentary model based on TI Davinci DM6467 to recognize lane and guide board.

Project

- May.2017- Analysis on similarity structure pattern, Machine Learning.
 - Present o Performed statistical analysis on datasets from Rakuten and National Police Agency.
 - o Extracted similar structural pattern from sugar chain that may cause particular diseases.
 - o Applied tree kernel k-means algorithm to classify the DOM trees of phishing site pages.
- Mar.2017- High-performance Multi-tier Twitter Analytics Web Service, CLOUD COMPUTING.
- May.2017 o Deployed high performance, fault-tolerant web service on AWS, implemented RESTful API structure to query data from 1TB raw tweets by MapReduce.
 - o Implemented data schema in MySQL and HBase, optimized database to serve different hybrid requests.
 - o Enhanced live performance by frontend caching, data replication and employing load balancers.
- Mar.2017- Ethical Hacking Windows OS using Command Line, Penetration Hack.
- $Apr.2017 \quad \circ \ \, Accomplished \ \, reverse \ \, attack \ \, using \ \, Metasploit \ \, framework.$
 - o Conducted ethical keyboard, webcam and file management hacking on Windows 7 and Windows 10.
 - o Achieved UAC bypassing taking advantage of Powershell Empire and obtain the hashed password value.
- Mar.2017- Online Code Compiler based on Docker Container and AWS, CLOUD COMPUTING.
- Apr.2017 Constructed compiler images for Docker to build containers and servers to serve requests.
 - o Built proxy server using Python Flask, which forwards requests to Docker container and return to users.
 - o Utilized AWS EC2 Container Service on container pool and load balancer to ensure high performance.

Skills

- Programming Python, Java, HTML/CSS, R, LabVIEW, LATEX
 - Tools Git, Maven, Kinect, Intellij IDEA, PyCharm, MySQL, Hadoop, AWS
 - Languages English, Chinese, Japanese
 - Coursework Cloud Computing, Machine Learning, Web Application Development, Computer Networks,

Applied Informatics, Data Structure, Interactive Web Design