Jialin Xu

EDUCATION

- 2016-2017 Carnegie Mellon University, Master of Science in Information Technology, GPA 3.72, Pittsburgh, PA.
- 2016-2018 University of Hyogo, Master of Applied Informatics, GPA 4.0, Kobe, Japan.
- 2011-2015 Beijing University of Posts and Telecommunications, Bachelor of Engineering, Beijing, China.

INTERNSHIP EXPERIENCE

- 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.
 - $\circ\,$ Applied daily security injection, XSS and access control auditing on Rakuten's websites.
- Apr.2015- Software Engineer Intern, ROCKCHIPS ELECTRONICS CO., LTD, Beijing, China.
- Feb.2016 O Developed a module application to the customer information on iOS device.
 - o Built a parser model based on RapidXml library to read pre-defined format data.
 - o Conducted data analysis on customers' preference survey results using R.
- Sep.2014- Data Analysis Research Intern, UNIVERSITY OF HYOGO, Kobe, Japan.
- Dec.2014 Created a model to analyze Data Breach Incidents using R from longitudinal, geographical angle.
 - \circ Conducted simulation of privacy negotiation process and optimized the rate of agreements from 47.56% to 86.96%.
 - o Reclassified Android threat and proposed mitigation strategies.
- Jun. 2013- Research Intern, TSINGHUA UNIVERSITY, Beijing, China.
- Sep.2014 o Developed a prototype based on TI Davinci DM6467 to achieve recognition of lane, guide board and pedestrian.
 - o Enhanced dynamic detection algorithm focusing on pedestrians and automobiles from 52% to 63%.
 - o Simplified the design of hardware development and ameliorated the stability of prototype in real applications.

PROJECTS

- May. 2017- Similarity Structure Pattern Analysis, Machine Learning.
 - Present o Performed statistical analysis on fake sites datasets from National Police Agency.
 - o Extracted similar structural pattern from sugar chain using extended center star algorithm using Python.
 - 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 front-end caching, data replication and employing load balancers.
- Mar. 2017- Ethical Hacking Windows OS, PENETRATION HACK.
- Apr.2017 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 to 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 then responds 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, Hadoop, AWS
 - Languages English, Chinese, Japanese
 - Coursework Cloud Computing, Machine Learning, Web Application Development, Computer Networks,

Applied Informatics, Data Structure, Interactive Web Design, Human-Computer Interaction