CHAO XU

+1 5402354084 · chaoxu18@vt.edu

EDUCATION

Virginia Tech   Virginia, United States
Master of Science in Computer Science   Aug. 2018 – May. 2020 (Expected)
- Featured Coursework: Data Analytics, Big Data Text Summarization, Statistics

Fudan University
Bachelor with Honor in School of Information Science and Technology   Sep. 2013 – June 2017
- GPA: 3.61/4.00
- Selected to Elite Electrical Engineer Program (top 5% of 500 students, on the basis of outstanding research performance)
- Featured Coursework: Data Structure and Algorithm, Computer Architecture

SKILLS

- Coding: Python, Golang, Scala, Java, Matlab, C++
- Tools: Git, Kafka,ElasticSearch, Hive, Hadoop, Spark, ClickHouse, InfluxDB, MySQL, Latex

WORK EXPERIENCE

ByteDance Software Engineer Intern   May. 2019 – Aug. 2019
- Design and develop the back-end system services for CDN analysis platform.
- Complete deployment of data flow tasks and develop Hive2InfluxDB and Hive2Kafka common tools.
- Investigate the use and support of ClickHouse, Druid in the company, and provide reference for data landing of the subsequent projects.
- Design and develop DataSDK and DataAgent to integrate requests and collect data streaming uniformly.

Financial Engineer Intern at Yaozhi Asset Management Co., LLP.   Apr. 2018 – Jul. 2018
- Maintained portfolio management system (Django). Participated in alpha strategy analysis. Realized short-term price-volume multi-factors model.
- Optimized the algorithm of the backtest system and greatly improved the efficiency.

RESEARCH EXPERIENCE

Virginia Tech (Department of Computer Science)   Virginia, US
Research Assistant to Professor Gang Wang   Sep. 2018 – Apr. 2019
Investigation on Phishing Sites
- By collecting phishing sites from several blacklists and trying to download phishing kits from them, we first build a measurement tool to feed fake credentials to live phishing sites.
- Obtaining phishing kits from a subset of phishing sites to analyze how credentials are sent to attackers and third-parties on the server side.
- Setting up honey accounts to monitor the post-phishing exploitation activities from attackers. Our study reveals the key mechanisms for information sharing during phishing, particularly with third-parties.

Fudan University (Department of Computer Science)   Shanghai, China
Research Assistant to Professor Yang Chen   Nov. 2016 – Apr. 2018
Understanding the User Behavior in Online Social Networks
- Using Matrix Factorization and Clustering algorithms to classify users and shops on Dianping website and to study their distribution and characteristics, aiming to study urban planning and recommendation systems
- Leveraging potential of social hub services (SHS). Based on cross-links, an important function of SHS, aggregating users' profiles on several websites for further analysis and investigation into privacy issues.
- Cross-links also provide outstanding method for influential prediction, study of multi-layer social networks [Do you mean networks here?]and further understanding of comprehensive influence across assorted online social networks

PUBLICATIONS

1. P. Peng, **C. Xu,** L. Quinn, H. Hu, B. Viswanath, G. Wang "What Happens After You Leak Your Password: Understanding Credential Sharing on Phishing Sites", *July 7-12, 2019, The ACM Asia Conference on Computer and Communications Security (ASIACCS)*
2. Q. Gong, Y. Chen, X. Yu, **C. Xu**, Z. Guo, Y. Xiao, F. Ben Abdesslem, X. Wang, P. Hui "Exploring the Power of Social Hub Services", 2018, *Word Wide Web Journal*
3. Q. Gong, X. Yu, **C. Xu**, Z. Guo, Y. Chen, X. Wang "Leveraging the Potential of Social Hub Services", December 12, 2017, *CoNEXT'17 Student Workshop*