

CHAO XU

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EDUCATION

Virginia Tech

Master of Science in Computer Science

Virginia, United States

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

National University of Singapore

Exchange Student

Singapore

Jan. 2016 – May 2016

- Earned 12 course credits, GPA: 4.0/5.0

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*

RESEARCH EXPERIENCE

Virginia Tech (Department of Computer Science)

Research Assistant to Professor Gang Wang

Virginia, US

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)

Research Assistant to Professor Yang Chen

Shanghai, China

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 and further understanding of comprehensive influence across assorted online social networks

WORK EXPERIENCE

Software Engineer Intern

Design and develop the billing item component guidance system.

ByteDance

May. 2019 – Aug. 2019

Design and develop the back-end system services for CDN analysis platform. Complete analysis platform data flow tasks deployment and implementation of Hive2InfluxDB common tools. Investigate the use and support of ClickHouse, Druid in the company, and provide reference for data landing of the subsequent project. Develop DataSDK and DataAgent to integrate requests and collect data streaming uniformly.

Graduate Teaching Assistant

CS 1044: Intro Program in C

Virginia Tech

Aug. 2018 – Jan. 2019

Financial Engineer Intern

Optimized the algorithm of the backtest system and greatly improved the efficiency.

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.

SKILLS

- Coding: Python (proficient), Golang (proficient), Matlab (proficient), C++ (prior experience)
- Tools: Git, Kafka, Hive, Hadoop, Spark, ClickHouse, InfluxDB, MySQL, Latex