Qingying Hao

CONTACT INFORMATION	No.89 MinZhuang Road, Institute of Information Engineering, Chinese Academy of Science	Email: gyhaoq@outlook.com

RESEARCH AREA Network Security; Machine Learning in Security Analysis

EDUCATION

Johns Hopkins University   **Baltimore, MD**
M.S. in Information Security   August 2015 - December 2016

University of Washington Seattle   **Seattle, WA**
B.S. in Information Science   August 2011 - June 2015

RESEARCH EXPERIENCE

Key Information Security Lab, Chinese Academy of Sciences   **Beijing, China**
May 2017 - Present
- Research and implement some FHE algorithms with number theory library and corresponding FHE libraries in Linux systems using C++
- Research on the improvement of current FHE schemes and write the new FHE library

Information Security Institute, Johns Hopkins University   **Baltimore, MD**
June 2016 - October 2016
- Email logs audit for users' security behavior analysis by focusing on some predefined security features and rules
- Use several proxies such as Burp Suite to capture users' email logs
- Conduct user study for desktop / mobile systems; data analysis through statistical and computing methods
- Research on users' mouse clickstream

CAPSTONE PROJECT

Windows Security logs Visualization   **Baltimore, MD**
October 2016 - December 2016
- Create a dashboard showing windows security alerts for different time by various filters according to our predefined rules
- Use Apache + MySQL+ PHP to store, process data and create the dashboard interface with bootstrap template
- Use Tableau for logs distribution visualization

Turnip: Special Dietary Food Search Engine Website   **Seattle, WA**
January 2015 - June 2015
- Design a restaurants / food search engine website around UW campus for people who have special dietary needs
- Create wireframes, high fidelity prototype of the website and design the project poster

CLASS PROJECT

Design and Implementation of Secure Network Layers   **Baltimore, MD**
September 2016 - December 2016
- Design and develop reliable secure data transmission protocol similar as SSL with three-way handshake, mutual authentication, public signatures and encryption features enabled using Python Twisted library
- Sandbox testing and design security policies for read/write privileges

Database for DVD Rental Shop

Seattle, WA
March 2015 – June 2015

- Design and develop database using Visio and SQL server according to specific business needs and users' requirements
- Explore database mirroring, synchronizing and backup

Web Crawler Development

Seattle, WA
March 2014 – June 2014

- Develop an NBA player news crawling website with .net and C# and implement the website using Windows Azure and Amazon RDS

PUBLICATIONS CONFERENCES

Yuqing Yu, **Qingying Hao**, Ping Hao. The Research and Application of Enterprises' Dynamic Risk Monitoring and Assessment Model Based on Related Time Series. In *proceedings of the Chinese Automation Congress & Intelligent Manufacturing International Conference (CAC '2017)*, Jinan, China, Oct. 2017.

POSTERS

Yuqing Yu, **Qingying Hao**, Ping Hao. The Research and Application of Enterprises' Dynamic Risk Monitoring and Assessment Model Based on Related Time Series (Poster). In *proceedings of the Chinese Automation Congress & Intelligent Manufacturing International Conference (CAC 2017)*, Jinan, China, Oct. 2017.

Qingying Hao, Fardos Mohamed. Turnip: Special Dietary Food Search Engine Website (Capstone Project Poster). June. 2015. iSchool@UW, Seattle, WA, 2015.

WORK EXPERIENCES

Gongyue Information and Technology Co.,Ltd.

Shaoxing, Zhejiang
January 2017 – May 2017

- Daily Information System and database maintenance for some universities' audit and purchase system using asp.net C# and SQL Server
- Research and implement users' access control based on workflows and system roles
- System demonstration and customer technical support

Gongyue Information and Technology Co.,Ltd.

Shaoxing, Zhejiang
June 2015 – August 2015

- Research and design the time-series based business risk monitoring and assessment model for some enterprises which would generate multi-leveled alerts according to risk indicators and rules
- Collect and preprocess enterprises' business data; UX testing

SKILLS

Programming: Java, C++, Web (HTML5/CSS, Javascript), Linux, Python, SQL
Application: Adobe Illustrator, LATEX
Languages: Chinese (Native Speaker), English