Yecheng (Victor) Tan

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EDUCATION

The George Washington University, Washington DC, USA   **Sept. 2015–May 2017**
Master of Cybersecurity in Computer Science
Cumulative GPA: 4.0/4.0 **Graduation Date**: May 2017

Hohai University, Nanjing, CHINA   **Sept. 2008–June 2012**
Bachelor of Engineering in Computer Science and Technology

TECHNICAL SKILLS

Programming
Python, C++, Bash, HTML, JavaScript, GitHub, Docker, APIs, Elasticsearch, AWS
Software
Linux /Ubuntu, VS2008, PyCharm, Wireshark

WORK EXPERIENCE

The GW Libraries, Washington DC, USA   **Nov. 2015–Present**
Full-stack software developer (Department STG)
- Work on the open-source python project of Social Feed Manager (SFM) to archive data on social media.
- Build and distribute application with python/Django and Docker.
- Design and develop harvesters to collect public data on *Sina Weibo* and *Tumblr* using corresponding APIs.
- Responsible for improving back-end functions and fixing reported harvester bugs for SFM.
- Assist coding on sfm-elk (Elasticsearch, Logstash, and Kibana) to achieve data searching and data visualization.
- Optimization UI work on sfm-ui with bootstrap and JavaScript.

Fiberhome Starrysky Co., Ltd., Nanjing, CHINA   **July 2012–Feb. 2014**
R&D Engineer (Department T01)
- Engaged in developing a Linux C++ project with a focus on analyzing the network payloads.
- Managed the coding of Auto-Installation Bash with a purpose to install the service in mass machines automatically.
- Located the feature of verified messages which sent by some WIN32 applications.
- Analyzed web connections which are established using unauthorized digital certificates and dug into the SSL protocol.
- Improved memory pool solution to stop memory crash due to frequently using the STL containers in multithreaded coding.
- Involved in a project of network monitor and provided solutions for controlling the VPN bandwidth and flow.

Technical Analysis Engineer (Department Fundamental Research)
- Developed the "Setup" module of a Windows Service supporting the T01 system.
- Basic reverse analyzed WIN32 malware using debug tools such as IDA and OllyDbg to discover the vulnerabilities.
- Sharpened up skills of C++ disassembly and the ability to reverse analysis.

BSH Electrical Application (Jiangsu) Co., Ltd., Nanjing, CHINA   **May 2011–Nov. 2011**
Database Internship (Department Washing Machine Industry)
- Used VBA to develop the *FPY*(First Passed Yield) database and assisted the improvement of *OEE* database.
- Taught the engineers how to use the databases one-on-one and learned where need to be improved.
- Reduced the time cost to make weekly reports by 15% and Maximized the efficiency of data analysis.
- Familiarized with the solutions to data filter and improved my spoken English.

RESEARCH PROJECTS

Hohai University, Nanjing, CHINA   **Mar. 2012–June 2012**
Bachelor thesis: Application of Information Hiding
- Worked under Prof. Lu researching on the digital watermarks technology based on the DCT (Discrete Cosine Transform).
- Mastered the analysis of the *bmp* image format and developed an embedding application.
- Improved the algorithm complexity of DCT and enhanced the robustness of the embedding application.
- Awarded the "*Excellent Bachelor Thesis*" which can only be given to top 5% students in the college.

AWARDS& HONORS

- **Awarded Excellent Student** at Hohai University (2009, top 5%)
- **Excellent Learning Scholarship** recipient at Hohai University (3 consecutive years, the year 2008, 2009, 2010, top 20%)
- **JingShen-WenMing Academic Scholarship** at Hohai University (2009, top 5%)

VOLUNTARY

Hohai University, Nanjing, CHINA   **Oct. 2010–Nov. 2010**
Teaching Assistant
- Assisted the teacher to give lessons on solving computing problems by using MATLAB.
- Instilled problem solving skills to students when confronting with complex matrix calculation.