Changyun Gong

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Education

Johns Hopkins University   2014 Fall – 2015 Fall (expected)

Master of Science in Security Informatics, GPA 3.75/4.0

Huazhong University of Science and Technology   2010 Fall – 2014 Spring

Bachelor of Engineering in Software Engineering, GPA 82.78/100

Internships

Yonyou Software (Wu Xi) Co., Ltd   2015 June – 2015 August

Development department

➢ Transform 7 reports from other systems to receivables plan module in Yonyou NC6.3 system, at Shuangliang Boiler Co., Ltd. Develop 4 report templates under supply chain module for finicial accounting.
➢ Responsible for the development of 3 report templates in bad material management of after-sale service of inventory management module, at Furen High-Tech Co., Ltd. The whole NC system is formally launched on August 1st, 2015.

Neusoft (Da Lian)   2013 June – 2013 August

The Design of Instant LAN Chat Software based on Linux

➢ Leader of interface group, fulfilled the function of UI, design interfaces for other modules. Socket programming, UDP protocol and threading skills are involved.
➢ Accompleshed chat window shaking by implementing random function and window repaint. Encaptulated functions to operate all windows and widgets.

Projects

Web Hotpot

➢ Maintainer of http://www.webhotpot.com/, which is deployed in AWS EC2. The website is developed with semantic UI, AngularJS, nginx, node.js, mongodb and some other tools like grunt, git.

DDoS Malware Analysis

➢ Given sample of malwares, such as Dirt Jumper version 5, use tools like IDA Pro, wireshark, process moniter, regshot, PEview and InetSim to do static, dynamic and traffic analysis
➢ Responsible for static analysis to find algorithms in binary. Use IDA plug-in and python script to write some scripts to detect algoriths like hash and encryption.

Software Vunerability Analysis

➢ Practised on breaking with system calls, engaged a little reverse engineering and assembly language. Also realized JIT spray to make data executable against ASLR and DER stack.
➢ Do experiments on cross-site fogery, cookie theft, SQL injection and profit worm based on a PHP website.

Research on Gradual Shot Segmentation

➢ Cut .avi files into pieces in semantic level by recognizing different scenes, which is achieved using histogram match within opencv libs. Enhance the process to high efficiency by implementing adaptive threshold and improved dichotomy.

Activities

➢ Course assistant of Database, 2015 fall semester.
➢ Qualification Certification of Computer and Software Technology Proficiency of China

Skills

Programming Languages: C/C++ (proficient), python (experienced), Javascript (experienced), Java (familiar)

Software & Tools: Visual Studio 2010/2013, vim, gdb, PL/SQL, mongodb, IDA pro, vmware, openstack

Framework/lib: web.py, fastcgi, mfc, opencv, gtk, node.js, angularJS