

Yiming LU

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Education

2008.9-2012.6	B.S. in Beijing University of Posts & Telecommunications	Network Engineering
2012.9-present	M.S. in Beijing University of Posts & Telecommunications (State Key Lab)	Computer Science

English Proficiency: CET-6 Good spoken and written ability.

Internship Experience

- ◆ **2014.6-present Microsoft Asia-Pacific R&D Group MSIT Software Development Engineer**
 - ✧ Provide authentication and authorization management for enterprise and partners through Enterprise Portal Platform.
 - ✧ Do authentication with Claims-based identity from Active Directory (AD), enabling Single Sign-On (SSO) in web app.
 - ✧ Do authorization with Role-Based Access Control (RBAC) under different roles for different users.
- ◆ **2012.10-2013.3 Polycom Communications Technology Automation Java Software Engineer**
 - ✧ Build continuous integration environment for RPD (Real-Presence Desktop), a software product line.
 - ✧ Write telnet interface for RPD, enabling remote control of RPD terminals.
 - ✧ Write automation-test framework for RPD & HDX using JUnit to arrange tasks remotely.
 - ✧ Process complicated logs into readable HTML webpage, improving the efficiency of related colleagues.

Project Experience

- ◆ **2013.2-2014.6 Network Attack Trace-back and Blocking (National 973 Project)**

Project Description: Build a network monitor system that can trace the source of attack inside a network structured by an amount of virtual machines, aimed at both DDoS attack and single-packet attack. The system has two parts: attack packet trace-back subsystem and attack flow blocking subsystem.

Project Responsibility: I am responsible for attack packet trace-back subsystem part, mainly including the followings:

 - ✧ Design & implementation of the trace-back algorithm through traceable coloring. Optimize the trace-back performance by decreasing the communication between the TBM (Trace-Back Manager) and routers, which ensures the high performance of trace-back system during large-scale DDoS attacks.
- ◆ **2013.9-2014.3 IMS Attack-test Anti-Tracking Subsystem based on mobile platform**

Project Description: Seize mobile terminals by malicious software to build mobile botnet. Use the botnet to launch large-scale DDoS attacks, protecting the zombie nodes from being caught.

Project Responsibility: I am responsible for the mobile platform based anti-tracking subsystem.

 - ✧ Get root access to Android devices through existing system vulnerabilities. Implement the source IP Masquerading & loose source routing for Android network packets.
 - ✧ Update the information of zombies to server through multi-level proxy. Launch attacks after receiving attack commands aimed at IMS servers.
- ◆ **2013.3-2013.7 Leases Management System**

Project Description: Design and write a management system of leases for a small rental company.

 - ✧ A .Net management system application based on C# and WPF.
 - ✧ Implement user authority management, event management and report management.
 - ✧ Use logs to keep persistence of data. Backup & Restore the database instances to keep safety of data.
- ◆ **2012.2-2012.6 Lightweight VoIP system with Firewall Traversal Module**

Project Description: Add firewall traversal interface into Jain-SIP to transfer SIP signalings and media streams, enabling firewall traversal of VoIP services.

 - ✧ Do firewall traversal through socks proxy. Automatically find firewalls and connect to the proxy if needed.
 - ✧ Redirect the SIP media streams by modifying the SDP header, enabling media streams through proxy.

Skills

- ◆ Good knowledge in C/C++ & Java; Experience in Assembly Language & C#; Familiar with Android Development.
- ◆ Familiar with Programming in Linux & Shell Script. Have Experience in Linux Kernel Programming.
- ◆ Familiar with commonly-used algorithms & data structures, as well as socket programming.
- ◆ Familiar with SQL scripts and DB engines like MySQL, SQL server, Sybase and etc.

Awards

- ◆ Second Prize as Outstanding Graduate In our lab (2013)
- ◆ National Scholarship (top 2%, 2010)
- ◆ University Scholarship (2009,2011,2012,2013)

Personality

High responsibility;	Fast-learning;	Swiftly adaptable to changes;
Team player;	Good communication skills;	Self-motivated