Yuchen Ying

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Education

The University of Georgia	**Athens, GA**
Master of Science in Computer Science, GPA: 3.85	*Aug 2012 - May 2014*

Relevant Coursework: Operating System, Network Attack & Defense, Algorithms, Advanced Operating System, Computer Networks, Compiler, Advanced Distributed System, Machine Learning
Master Thesis: unROP: Creating Correct Backtrace from Core Dumps with Stack Pivoting

Beijing University of Posts and Telecommunications	**Beijing, China**
Bachelor of Engineering in Information Security	*Sep 2006 - May 2010*

Projects

twip	**Python, PHP**

Open-source REST API proxy. Useful for Twitter users in China to bypass blockage.
http://github.com/twip | ~250 stars/~70 forks, and thousands of users in China
Techniques: HTTP protocol, OAuth

ActiveConn	**C++, Python**

A daemon to collect active TCP connection information on linux system in real-time
Techniques: Linux Kernel development, Thrift RPC protocol, sqlite database

reCaptcha Helper	**Python**

Term project for Machine Learning, designed to defeat reCapthca.
Techniques: Machine Learning

SAM	**Python**

An in-house web-based server management system with automate OS provision functionality.
Techniques: Django, PXE network boot

VPN User Portal	**PHP**

A website that provides VPN service to users in China to bypass network blockage.
Techniques: OpenVPN, IPSec VPN FreeRadius

Relevant Experience

Google, Inc	**San Francisco, CA**
Site Reliability Engineer, Full-time	*July 2014 - now*

- Working on Google's PaaS cloud platform App Engine
- Design and develop production systems to ensure App Engine's stability and scalability
- Troubleshooting production incidents in a timely manner

Facebook, Inc	**Menlo Park, CA**
Production Engineer, Intern	*May 2013 - Aug 2013*

- Worked in Ad/Commerce team as a production engineer
- C++ development in back-end services
- Developed a daemon to collect real-time active TCP connection information in Linux, without parsing procfs text files

Alibaba Alipay.com	**Hangzhou, China**
System Administrator, Full-time	*May 2010 - July 2012*

- Served as a core member of a 7-members system administrator team
- Mentored two new employees
- Provided data center on-site technical support
- Developed a in-house server management system with automate OS provisioning functionality

Publications

Isaac Chun-Hai Fung, King-Wa Fu, Yuchen Ying, Braydon Schaible, Yi Hao, Chung-Hong Chan, and Zion Tsz-Ho Tse. Chinese social media reaction to the mers-cov and avian influenza a (h7n9) outbreaks. *Infectious diseases of poverty*, 2(1):1, 2013.