Ping-Min Lin

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Education

Carnegie Mellon University, School of Computer Science Dec. 2018
M.S. in Computer Science GPA: 3.56/4.0 *Pittsburgh, PA*

Coursework 15-513 Introduction to Computer System, 15-640 Distributed Systems, 15-651 Algorithm Design and Analysis, 15-641 Computer Networks, 15-688 Practical Data Science, 15-619 Cloud Computing, 15-719 Advanced Cloud Computing

National Taiwan University Jan. 2017
B.S. in Electrical Engineering and B.B.A in Finance GPA: 3.98/4.0 *Taipei, Taiwan*

Honors Pan Wen Yuan Scholarship, Dean's List (F '12, S '13, S '15)

Coursework Data Structures and Programming, Operating Systems, Intelligent Devices and Cloud Computing Machine Learning, Computer Security, Special Topics in Computer Security

Professional Experience

Aidmics Biotechnology Aug. 2016 - Jan. 2017
Software Development Engineer *Taipei, Taiwan*

- Integrated user-tracking with Facebook Business and Google Analytics to collect insights for advertisement.
- Incorporated Slack Bot API and email with Nodemailer into payment process, improving workflow and reducing delivery time by pushing realtime order notifications to sales team.
- Refactored Node.js product site back-end into RESTful API, implemented new payment and discount system compatible to Paypal SOAP API and extendable interfaces for future payment methods.

Security Team, China Development Lab, IBM Taiwan Jul. 2015 - Jan. 2016
Software Development Intern *Taipei, Taiwan*

- Developed PoC for intrusion protection as a cloud service with Node.js and iptables on self-hosted Cloud Foundry instance and multi-tenant Openstack environment.
- Demonstrated a packet inspector utilizing Netfilter/NFQUEUE inside Docker containers by implementing daemons written in C, handling throughputs over 10Gbps.
- Co-invented US Patent: *Seamless Abort and Reinstatement of TLS Session (IBM Docket No. TW920160011US1)*, a method allowing passive inspectors to transparently handle existing TLS connections with resumption.

Projects

Video CDN *Team Course Project of Computer Networks* Nov. 2017 -Dec. 2017

- Developed a proxy client in C that requests video fragments with varying bitrate by detecting the network traffic.
- Implemented simple DNS client and server resolving names based on both round-robin and geolocation.

Liso: HTTP/HTTPS Web Server *Course Project of Computer Networks* Sep. 2017 - Oct. 2017

- Designed HTTP/1.1 web server in C, supporting multiple clients and pipelined requests with I/O multiplexing.
- Implemented CGI interface to communicate with external services, and also TLS support using OpenSSL library.

Minute Maid *MHacks X, Best Expo App Award & 1517 Most Unique Hack Award* Sep. 2017

- Designed meeting minute taker iOS app that converts speech into text and also developed clustering methods to classify topics of the speech in 36 hours with a team of 3.
- Implemented speech-to-text conversion with IBM Watson API, clustering the topics using Python's gensim and scikit-learn packages and used Flask, MongoDB, and Google Cloud Storage as the back-end.

Special Topics in Computer Security *Course Project* Apr. 2016 - Jun. 2016

- Developed advanced skills in exploiting executable binaries, e.g. format string attack, heap exploitation.
- Demonstrated possible exploit regarding CVE-2016-4024 as final project.(Final Presentation Slides: goo.gl/xOU8VH)

Skills

Programming Languages C/C++, Python, Javascript, Java, Bash, Ruby

Tools/Frameworks Linux, Node.js, MapReduce, Git, AWS, Docker, MongoDB, MySQL, Scrum