

Ping-Min Lin

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Education

Carnegie Mellon University, School of Computer Science

Dec. 2018

M.S. in Computer Science GPA: N/A

Pittsburgh, PA

Coursework 15-513 Introduction to Computer System, 15-641 Computer Networks,
15-651 Algorithm Design and Analysis, 15-619 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

Proxy Lab *Course Project*

Aug. 2017

- Designed a multithread proxy server handling HTTP/1.0 GET requests with C from scratch independently.
- Implemented a concurrent LRU-approximate cache for the proxy to reduce response time.

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)

Courspeek *Independent Project*

Jun. 2015

- Designed crawler with Horseman.js to parse classroom bookings, obtaining course data for the following semester.
- Built web application that served ~100 students simultaneously, allowing them to search courses before officially released with Node.js, React.js and MongoDB.

NTU Online Bookstore *Independent Project*

Aug. 2014 - Apr. 2015

- Developed online bookstore for the department's students with Ruby on Rails and MySQL.
- Used by four departments in the university with over 1000 users in production, total transaction amount reached around 4 million TWD (~160,000 USD) during a one year span.

Skills

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

Tools/Frameworks Linux, Node.js, Express, Git, Docker, Ruby on Rails, MongoDB, MySQL, NumPy