Ping-Min Lin

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Seeking for software development internship in Summer 2018

Education

Carnegie Mellon University   Dec. 2018
M.S. in Computer Science   *Pittsburgh, PA*
  Coursework 15-651 Algorithm Design and Analysis / 15-641 Computer Networks / 10-601 Machine Learning

National Taiwan University(NTU)   Jan. 2017
B.S. in Electrical Engineering and Finance   *Taipei, Taiwan*
  Overall GPA: 3.98/4.0 Overall Ranking: 10/243(4%)
  Honors Pan Wen Yuan Scholarship / Dean's List (3 semesters)
  Coursework Data Structures and Programming / Operating Systems / Intelligent Devices and Cloud Computing / Computer Security / Special Topics in Computer Security

Work Experience

Aidmics Biotechnology   Aug. 2016 - Jan. 2017
Web Developer   *Taipei, Taiwan*
- Integrate user-tracking with Facebook Business and Google Analytics to collect insights for advertisement.
- Refactored node.js product site backend into RESTful API, implemented new payment and discount system compatible to Paypal SOAP API.

Security Team, China Development Lab, IBM Taiwan   Jul. 2015 - Jan. 2016
Software Intern   *Taipei, Taiwan*
- Developed proof of concept for intrusion protection system cloud service with node.js and iptables on self-hosted Cloud Foundry instance and multi-tenant Openstack environment.
- Demonstrated possibility and performance of packet inspection with Netfilter/NFQUEUE inside Docker containers by implementing daemons written in C.

Patent Inventor
- US Patent: Seamless Abort and Reinstatement of TLS Session(IBM Docket No. TW920160011US1)
- Co-invented method allowing passive inspectors to transparently handle existing TLS connections with resumption.

Bonio Inc.   Jul. 2014 - Sep. 2014
Fullstack Web Developer Intern   *Taipei, Taiwan*
- Developed game prototype for project management training using Ruby on Rails.
- Deployed Scrum in project team as the agile software development framework.

Selected Projects

Special Topics in Computer Security   Spring 2016
- Developed advanced skills in exploiting executable binaries.
- Demonstrated possible exploit regarding CVE-2016-4024 as final project.
  (Final Presentation Slides: https://goo.gl/xOU8VH)

Electrical Engineering Lab (Embedded Systems)   Fall 2015
- Interacted with embedded prototyping systems (e.g. Tessel) and built middleware for custom I/O devices.
- Built Naviskate, a smart skateboard prototype integrating navigation into skateboards.
  (Demo Video(Chinese): https://goo.gl/WNjM4d)

Courspeek   Jun. 2015
- Implemented web page scraper to parse classroom reservations and obtain course data for the following semester with Javascript.
- 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   Aug. 2014 - Apr. 2015
- Independently developed online bookstore for our department student association 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++, Javascript, Python, Ruby
Tools/Frameworks   Git, Docker, node.js, express.js, Ruby on Rails, mongodb, MySQL, numpy