

Ting-Yuan Hsia

(408) 707-2897 | ly2314@gmail.com | <https://www.linkedin.com/in/ly2314> | <https://www.ly2314.cc>

EXPERIENCE

Member of Technical Staff

Jul. 2019 - Present

NetApp, Inc.

San Jose, CA, USA

- Design and develop data protection solutions and products including SnapMirror, volume move, Active Data Connector (ADC).
- Design and develop SnapMirror Restore from cloud storage archival tier (AWS S3 Glacier, Azure Blob storage Archive tier, Google Cloud Storage archive storage etc.).
- Design and develop several REST APIs in Active Data Connector (ADC).
- Design and set up DevOps workflow for ADC.
- Improve SnapMirror Restore from FabricPool performance by 300%.
- Develop functionalities in volume move.

Software Engineer Intern

Jun. 2018 - Sep. 2018

Facebook, Inc.

Menlo Park, CA, USA

- Developed a cache service from scratch for an internal system and it reduced page load time by 60%.
- The cache service was implemented in C++ and contains a Thrift interface which can be queried from PHP, C++ and Python clients.
- Modified back-end and frontend user interface for pagination capability for internal service.

Teaching Assistant

Feb. 2016 - Jul. 2016

National Taiwan University, Department of Electrical Engineering

Taipei, Taiwan

- Graded and assisted students in EE 4052, Computer Programming.
- Assisted 50 students with their assignments, questions and projects.

EDUCATION

Santa Clara University, Santa Clara, CA, USA

Sep. 2017 - Jun. 2019

Master of Science in Computer Science and Engineering

- Related Courses: Algorithm, Operating Systems, Data Mining, Cryptology, Computer Networks, Distributed Systems

National Taiwan University, Taipei, Taiwan

Sep. 2014 - Jun. 2016

Master of Science, Department of Electrical Engineering

- Master thesis: "Scheduling-Aware Data Prefetching Based on Spark Framework".
- Related Courses: Machine Learning, Artificial Intelligence, Fault Tolerant Computing, Network and Computer Security

National Taiwan University, Taipei, Taiwan

Sep. 2010 - Jun. 2014

Bachelor of Science in Engineering, Department of Electrical Engineering

- Related Courses: Data Structure and Programming

PROJECTS

Scheduling-Aware Data Prefetching Based on Spark Framework

- Proposed a scheduling-aware data prefetching mechanism.
- By evaluation, the mechanism **reduced 14% and 17% Spark execution time** with 25 GB and 50 GB datasets.
- The prefetch mechanism was based on **Spark** task scheduling, data was prefetched to cache just before it will be processed.
- Accepted by **IEEE Transactions on Parallel and Distributed Systems** and **The 31st IEEE International Conference on Advanced Information Networking and Applications (AINA-2017)**.

FileBox

- A full functional Dropbox application with **540,000+ downloads** on **Windows Phone** platform.
- FileBox is available on Microsoft Store: <https://www.microsoft.com/en-us/store/p/filebox/9wzdncrfj0nd?rtc=1>

SKILLS

- C, C++, C#, PHP, Python, Ruby, Java, Scala, Shell Script, Perl
- WPF, Windows Forms, VSTO, WordPress, Laravel, Django, Ruby on Rails, Sinatra
- Git, Mercurial, Perforce
- Amazon Web Service, Microsoft Azure, Google Cloud Platform, Heroku
- Windows Server, Red Hat Enterprise Linux, CentOS, Debian, Ubuntu
- VMware ESXi, Hyper-V, Xen, Docker
- MySQL, MS SQL, PostgreSQL, Oracle, MongoDB
- Apache, NGINX, IIS
- Jenkins
- Hadoop, Spark, Alluxio