Ting-Yuan Hsia

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Education

Santa Clara Univeristy, Santa Clara, CA, USA

Sep. 2017 - Jun. 2019

Master of Science in Computer Science and Engineering

GPA: 3.63 / 4

• 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

Experience

NetApp, Inc.

Software Development Engineer

Jul. 2019 - Present Sunnyvale, CA, USA

• Develop and maintain ONTAP data protection technology including SnapMirror, SnapDiff, 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 loading 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 both back-end service and frontend user interface for pagination capability.

Software Engineer

Jan. 2013 - Jul. 2016

Zuvio Inc.

Taipei, Taiwan

Developed and maintained client-side products including PowerPoint Add-ins and desktop applications from scratch using C#, XAML, WPF and VSTO.

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.

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.
- $\bullet \ \ File Box \ is \ available \ on \ Microsoft \ Store: \ https://www.microsoft.com/en-us/store/p/filebox/9wzdncrfj0nd?rtc=1 \ \ file Box \ is \ available \ on \ Microsoft \ Store: \ https://www.microsoft.com/en-us/store/p/filebox/9wzdncrfj0nd?rtc=1 \ \ file Box \ is \ available \ on \ Microsoft \ Store: \ https://www.microsoft.com/en-us/store/p/filebox/9wzdncrfj0nd?rtc=1 \ \ file Box \ fi$

Car Classifier

- A Convolution Neural Network (CNN) based neural network image classification system.
- Used Keras and TensorFlow to train the classification model; used Django and Python to develop the classifier website. Demo classifier website was deployed on Microsoft Azure.

Skills

Programming Languages

- C#: WPF, Windows Forms, Windows Phone Application Development, VSTO
- C++: Google Test, folly, Thrift
- PHP: HHVM, Hack, XHP, WordPress, Laravel
- Python: Django, Keras, TensorFlow, Theano
- Ruby: Ruby on Rails, Sinatra
- · Java, Scala, Shell Script
- Source control: git, Mercurial

Big Data Frameworks

• Hadoop, Spark, Alluxio

System Management

- Cloud Services: Microsoft Azure, Amazon Web Service, Google Cloud Platform, Heroku
- Operating Systems: Windows Server, Red Hat Enterprise Linux, CentOS, Debian, Ubuntu
- Virtualization Frameworks: VMware ESXi, Hyper-V, Xen
- Databases: MySQL, MS SQL, PostgreSQL, Oracle, MongoDB
- Web Servers: Apache, NGINX, IIS