



## EDUCATION

### Master of Science - Computer Science



January 2018 - December 2019 (expected)



University of Southern California, CA, USA

GPA : 3.94 / 4.0

### Bachelor of Science - Mechanical Engineering



September 2012 - June 2017



National Taiwan University, Taipei, Taiwan

GPA : 3.83 / 4.3

### Exchange Study - Computer Engineering



October 2015 - August 2016



Okayama University, Okayama, Japan

GPA : 88 / 100



## EXPERIENCE

### Android Developer Intern



May 2018 - August 2018



Cardinal Blue Software (PicCollage), Taiwan

Developed features on PicCollage - a top 10 photo-editing and collage-making Android app with a short-cycle, agile development team

- ▶ Designed new features for PicCollage's Photo Picker and Font Picker with Java and Kotlin language, dependency injection pattern and MVVM
- ▶ Improved PicCollage's performance by 50% when loading more than 1000 collages by optimizing I/O operations
- ▶ Utilized RxJava to implement UI event, data binding and asynchronous tasks in reactive programming
- ▶ Created UML documentations for refactoring legacy code and restructuring PicCollage

### Undergraduate Research Assistant



April 2017 - September 2017



National Taiwan University IOX center, Taiwan

Key Tasks and Achievements:

- ▶ Created an Android application with a mobile support system to assist DUI (driving under the influence) offenders on probation by detecting user behavior and alert user
- ▶ Improved the detection accuracy from 60% to 93% by detecting mode of transportation and correct duration and saving in a state machine

# SHIH-YAO LIN



## CONTACT



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## SKILLS

Languages :

- ▶ Java, JavaScript, Kotlin, TypeScript

Frameworks and tools :

- ▶ Android :RxJava, Epoxy, Dagger 2  
Mockito
- ▶ Web: node.js, Angular 7, ExpressJs



## PROJECT

### Search Engine with Solr

Built an Search Engine with Solr provided news from The Mercury News

- ▶ Provide two different algorithms to rank the result (Lucene and PageRank)
- ▶ Implement Autocomplete function from Solr and spell correction using Norvig's spell corrector

### Event-Searcher Angular Web application

An Angular 7 web app allowing users to search for events information near them.

- ▶ Searched for nearby events within user-defined distance and provided direction
- ▶ Provided event details, venue details in the web page with TicketMaster API