

# Yingyu Yang

Software Engineer

## Personal Information

### Phone

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### Email

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### Website

mescetina.github.io

### LinkedIn

linkedin.com/in/yingyu-yang-90b766109

### GitHub

github.com/Mescetina

## Programming Languages

### Proficient:

Python, Java, TypeScript,  
JavaScript, CSS, HTML

### Intermediate:

C/C++, SQL, SASS

## Frameworks & Tools

### Proficient:

MySQL, Linux/Unix, AWS,  
Tomcat, Git, Angular

### Intermediate:

Apache 2, Maven, MongoDB,  
Scrapy, Ionic

## Languages

Mandarin (native speaker),  
English (proficient),  
French (learning)

## Education

2016 –  
2020

### University of California, Irvine

B.S. in Computer Science & B.S in Software Engineering

- Overall GPA: 3.75
- Has been on Dean's Honor List for 9 quarters.
- Relevant Coursework: Information Retrieval, Project in Databases and Web Applications, Machine Learning, Human Computer Interaction.
- Specialize in web application development and UI/UX design.

## Experience

2019.6 –  
present

### Donald Bren School of Information and Computer Science, UCI

Undergraduate Research Assistant

Irvine, CA

- Designed user interface for the Texera web application.
- Implemented various functionalities (i.e. delete operators, copy and paste key bindings) using the Angular framework.
- Tested frontend codebase and identified existing problems.

2017.9 –  
2017.12

### Donald Bren School of Information and Computer Science, UCI

Lab Tutor

Irvine, CA

- Assisted students taking ICS 32 (Programming with Software Libraries) with their project problems.
- Explained basic concepts of programming languages (i.e. recursion, class, duck typing) to students.
- Received high marks in the end-of-term teaching evaluation.

## Projects

2019.1

### Fabflix

- A web application for online movie shopping that supports user authentication, fuzzy search, autocomplete, pagination, password encryption, and more.
- Optimized database operations with connection pooling, data caching, and stored procedures.
- Created an Android app that implements features to support searching and purchasing movies.
- Used AWS EC2, Apache 2 (as load balancer), Tomcat, and MySQL.

2019.11

### Sleep Tracker

- A hybrid mobile app built with the Ionic framework to track overnight sleep time and level of sleepiness during the day.
- Stored user data in the device's local storage using Ionic Storage.
- Scheduled daily notifications to remind users to log their level of sleepiness using Ionic Native and Apache Cordova.

2018.11

### UCI Search Engine

- A campus-wide search engine that supports searching websites with natural language.
- Scraped and parsed websites using Beautiful Soup and NLTK.
- Implemented inverted index for full text search, and tf-idf for result prioritization.

2019.3

### License Plate Recognition System

- A program that recognizes characters on license plates from unprocessed images.
- Used convolutional neural network to build the model, and gradient descent to train the model.