# Yingyu Yang

Software Engineer

## Personal Information

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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**

Irvine, CA

**Donald Bren School of Information and Computer Science, UCI**
Undergraduate Research Assistant
- 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**

Irvine, CA

**Donald Bren School of Information and Computer Science, UCI**
Lab Tutor
- 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 on 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 NTLK.
- 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.