

# XIAO (IRIS) JIANG

jiang.xiao@dhs.sg (323)5303734

## Summary

- Actively looking for software engineer internship opportunities.
- Proficient in C++; strong background in data structures and algorithms; a fast learner.
- Skills: C++, Java, python, JavaScript, CSS, HTML, Node, MFC, Hadoop, firebase, Spark, Lucene, MongoDB

## Education

- Sep 2017 - University of California, Los Angeles Los Angeles, USA**
- Computer Science major (BS). Expected graduation time: June/2021 (**junior**).
  - GPA **3.79/4.00**
  - **Courses completed:** Intro to Computer Science: Data Structures; Algorithm and Complexity; Sets and Graph Theories; Logic Design of Digital System; Introduction to Computer Organization; Operating Systems Principles and Software Construction Laboratory.
  - Ongoing courses: Computer Network Fundamentals; Intro to Machine Learning.

## Programming Experience

- April 2019 LAHACK honorable mention by Google Los Angeles, USA**
- Made an IOS app "ODam" with the aim to reduce food waste. Users can take a photo of the food they buy before putting it into the fridge. The app will remind users before food expires.
  - Built the main page of the app that shows a full list of items in the fridge and their number of days remaining till expiration using **Swift**;
  - Implemented image recognition function using Google Vision API; suggested expiration date was implemented by using a **web crawler**;
  - Stored the data for food items in **Firebase**, including dates when food is bought, food item name and days left till expiration.
  - Devpost link: <https://devpost.com/software/odam-jauypb>
- Nov 2018 Best Overall Hack for ACM Hack on The Hill IV Los Angeles, USA**
- Designed a website aiming to provide a platform to share reviews of each dish on the UCLA dining hall menus.
  - Used **EJS, CSS and NodeJS** to complete the front-end design of the main page, menu page and the review page;
  - Crawled the dish names from our school dining website and stored the data in **MongoDB**.
  - GitHub link: <https://github.com/irisjiangxiao/Belp>
- June 2019 Car racing game Los Angeles, USA**
- The main components of the game are the city layout, movement and shape of the car, collision detection, hp bar of the car and change of viewpoints.
  - Designed the entire game using only **webGL**; Shader of objects are done by **GLSL**.
  - Demo link: <https://intro-graphics-master.github.io/term-project-6/>

## Internship Experience

- Aug 2019 Luxin DB Software Nanjing, China**
- Designed a multi-person chatroom using **Netty**; implemented a **Kafka** producer;
  - Used Lucene to create index and index query; implemented a customized analyzer for input stream from the database;
  - Integrated **Lucene** into Spark to accelerate the search process. Instead of traversing through the original file, now Spark only searches the index of documents generated by Lucene.
- Dec 2018 Huawei Marine Co. Software Development Department Beijing, China**
- Designed an rdm file reader used for reading cable report that is generated by a roadm device.
  - Used MFC in Visual C++ to implement the file reader. Functions include selecting and opening a file, convert binary information in the file to show information such as file version, creating time, device number on a dialog.

## Volunteer Experience

- Oct 2018- Girls who Code Facilitator at New Roads School Los Angeles, USA**
- Holding a weekly session to familiarize girls ranging from 6th to 12th grade with basic web design and coding through the help of websites such as scratch (<https://scratch.mit.edu/>).

## Awards

- Nov 2017 PwC Challenge case competition 1st prize out of 24 teams Los Angeles, USA**
- Analyzed the financial report of a company and gave suggestions on its future development and expansion by using the knowledge of supply chain optimization, financial optimization and automation.