# Ruihua Sui

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#### **Education**

University of Illinois at Urbana-Champaign
Bachelor of Mathematics & Computer Science

**Graduation Date** May 2020

**GPA** 3.97/4.00

## **Projects**

### Opico - Backend Developer

August 2019 - Now

Joined Data Driven Design Research of Prof. Ranjitha Kumar as an Undergraduate Research Assistant. Developing new features to **Opico** – a social media mobile application that lets people share and discover places through emoji reactions.

- o Implemented the API service for Collections which contains a list of users' reactions based on emojis using JavaScript with PostgreSQL, Feathers JS, and Sequelize.
- O Gained more than 1000 registered users and generated more than 3700 emoji reactions to a set of more than 2400 physical places. Going to use the collected data to study the implications of Emoji-first communication for future social communications platforms.

## ClassTranscribe - Leading Frontend Developer

May 2019 - Now

#### classtranscribe/FrontEnd

Designed and built the frontend of **ClassTranscribe**, an educational video website of the University of Illinois launched by Prof. Lawrence Angrave, where provides searchable and editable transcriptions. This work is supported by a Microsoft Corporation gift to the University of Illinois as part of the 2019 Lighthouse Accessibility Microsoft-Illinois partnership.

- o Built all the components for admins, students, and instructors using React JS, Bootstrap, and Redux, and gained over 300 active users in the first month after deployment.
- o Implemented a two-screen video player which synchronizes playback of two medias.

#### GoDutch - Backend & Frontend

July 2019

#### WeiliLiu/GoDutch backend, ruihuasui/GoDutch

- Worked in a 4-member team to build a mobile app that enables people to split Walmart shopping bills with friends by using OCR to parse Walmart's electronic receipts.
- o Built several screens in frontend using React Native, implemented a part of API services using python and Flask, and wrote several queries to the database using MySQL.

## Web Games: Simple2048 and Gobang

May 2019

- o Implemented two single-page web apps using React JS in order to learn React. I designed algorithms and UI's for both of the games.
- o Simple 2048: a sliding block puzzle game designed by Italian web developer Gabriele Cirulli.
- o Gobang (Gomoku): a 2-player chess game

Malloc Contest March 2019

- o Implemented personal Memory Allocation functions including malloc, calloc, realloc and free during a two-week contest held by course CS241 in University of Illinois at Urbana-Champaign
- o Completed all test cases and ranked the top 5 percent among 300 contestants.

#### **Honors & Awards**

o James Scholar, University of Illinois at Urbana-Champaign

Spring 2019

o Dean's List Student, University of Illinois at Urbana-Champaign

2018 - Now

## **Highlights**

o *Programming Languages* C, C++, Java, JavaScript, Python, HTML5, CSS3

o Web/Mobile App Development React, React Native, FeathersJS, Flask, Sequelize, Redux, Bootstrap

o Database Management MySQL, PostgreSQL, MongoDB