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 Node JS with PostgreSQL, Feathers JS, and Sequelize.
- 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 - 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.

- Set up multiple pages for admins, students, and instructors using React JS, and gained over 300 active users after deployed at the end of August.
- o Implemented a two-screen video player which synchronizes playback of two medias.
- Collecting data from user actions to study the importance of transcriptions in students' self-learning through watching educational videos.

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 6 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

o Web/Mobile App Development Node JS, React JS, React Native, Feathers JS, Flask, Sequelize

o Database Management MySQL, PostgreSQL, MongoDB