

# Tongjie Wang

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## EDUCATION

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### University of California, Irvine (UCI)

- Third year student in Computer Science (September 2017 – June 2021).
- Relevant Coursework: Python, C/C++, Data Structure, Software Engineering
- Overall GPA 3.9/4.0; school GPA 3.9/4.0.
- Dean's List.

## EXPERIENCE

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### Beier Lab

*Software Developer*

July 2019 – Present

- Assist the lab in their research in neurobiology by writing scripts for automated tasks, using statistics/machine learning library to analyze data.
- Building GUI tools using React and Electron for running the scripts for automated tasks and data visualization.

### Kontess

*Front-end Developer*

October 2018 – Present

- Coordinate with other students and develop new website for Kontess.
- Using React and Sass to create a modern maintainable and extendable website.
- Using Socket.IO and Node.js to build WebSocket-based chat system.

## PROJECTS

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### iOS Keyboard

October 2019

- Developed an iOS keyboard that helps user type popular meme conveniently as well as insert spaces between Chinese characters.
- Implemented with Swift and Google Input Method API.

### Search Engine

June 2019

- Developed a simple search engine, including tokenizer, crawler and database, in Python.
- Use Flask to make an API and build a webpage as UI, instead of using plain CLI.
- Various techniques (including trap detection, tf-idf scoring, and cosine similarity) are used to improve the quality of search result.
- The product returns appropriate links for most (about 92%) queries.

### Linux Shell

March 2019

- Developed a basic Linux shell that supports background process, redirection and pipe and their valid combinations.
- Implemented with C and POSIX system API.

## SKILLS

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- Programming: Python, C/C++, JavaScript, Objective-C/Swift, Java, MATLAB.
- Others: markdown, git, make, CMake, Microsoft Office, Visual Studio, gdb.