# Tongjie Wang

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## EDUCATION

### University of California, Irvine (UCI)

- Computer Science Senior Student.
- Overall GPA 3.9/4.0; school GPA 3.9/4.0; Dean's List.

## EXPERIENCE

### 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.

### Teletrac Navman AI Churn Prediction

*Team Member*                                                                 January 2020 – June 2020

- Developed programs to generate input data for machine learning models from company's raw customer data by data cleaning, data aggregation and oversampling in Python.
- Trained and tuned various machine learning models such as Naive Bayes and got a 0.7 recall score, which reaches the company's expectation.

### Kontess

*Front-end Developer*                                                                 October 2018 – June 2020

- Coordinate with other students and develop new website for Kontess.
- Using React and Sass to create a modern maintainable and extendable website.

## PROJECTS

### Fabflix Online Movie Store                                                 April 2020 – June 2020

- Developed a scalable online movie store with tools like Java, MySQL, Tomcat, AWS, HTML, CSS, JavaScript and techniques such as connection pooling and load balancer.
- Implemented a simple mobile app for browsing and searching movies using Java for Android and Swift for iOS.

### Search Engine                                                                 May 2019 – 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 using C and POSIX system API.