

Xiaohan (Katy) Jiang

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OBJECTIVE

Graduate student in **Software Engineering** from SJSU, actively seeking for opportunities of **Software Development Engineer**.

TECHNICAL SKILLS

Languages: Java, C++, Python, PHP, HTML, CSS, Fortran, JSON, JavaScript, React and AngularJS.

Database: relational database (MySQL)

Software Tools: Git, AWS Elastic Beanstalk, EC2, S3, Jupyter Notebook

WORKING EXPERIENCES

Luminate Health - Data Scientist Intern

Aug 2018 – Feb 2019

- Analyzed the correlation between chronic kidney disease patients' age and disease stage using **Python**.
- Employed diabetes patients' A1c (blood test) results and past health history to predict their current health conditions using **Seaborn** and **Matlab**.
- Presented the results and won further collaboration opportunities with the business partners.

ACADEMIC PROJECTS

Emotion Detection From Tweets

Oct 2020 – Dec 2020

- Preprocessed tweets by utilizing **NLTK** library to remove stop words, punctuation, and lemmatizing data.
- Implemented an algorithm to extract emotions from tweets' text and map them into five different emotions based on training data.
- Achieved 150X speed up in runtime and reduced the unprocessed negations from 10% to 3% through optimizing the data structure in text2emotion library.
- Deployed **topic modeling** and **BERT NER** to draw the connections between emotions and other factors such as trending news and tweeting locations.

Real Estate Marketplace Web Application

Aug 2020 – Dec 2020

- Developed front-end of an online real estate marketplace website using **JavaScript** and **React**.
- Utilized **MongoDB** for database construction and employed **NodeJS** for asynchronous event-driven.

Company Web Application

Aug 2019 – Dec 2019

- Designed a web application using **HTML5/CSS/JavaScript** for a virtual retail company.
- Built **MySQL** database to **CRUD** users'/products' data for the retail company.
- Bootstrapped server side using **PHP** and deployed it to **Amazon EC2** to handle 150 queries per second.

EDUCATION AND AWARDS

San Jose State University, CA - Master of Software Engineering – 3.7

Aug 2019 – Dec 2021

Foothill College, CA – 3.7

Sep 2017 – Jun 2019

Shantou University, China - Bachelor of Science, Applied Physics

Aug 2011 – Jun 2015

Award – First place in Deepfake Education Competition

Oct 2020

Made an animated educational video about deepfake technology and its potential impact on the society

Link: <https://youtu.be/LJMuseCuw5U>

PUBLICATION

Journal of Atomic and Molecular Physics

Y.Xu, **X.Jiang**, L.Pan, Z.Lai, D.Chen, Z.Chen

Initial state distortion and final state correlation effects in (e, 2e) processes on hydrogen

Doi: 10.3969/j.issn.1000-0364.2014.06.013

GITHUB

<https://www.github.com/katyjiang>