

Xiaotong Li

SOFTWARE ENGINEER · BACKEND/INFRA/MACHINE LEARNING

Santa Clara California, 95051, United States

☎ (+1) 831-201-9132 | ✉ xiaotongli1995@gmail.com | 📱 jxlt | 🌐 xiaotongli-ucsc

Technical Skills

Programming Language JavaScript, Python, PHP, Go, SQL/NoSQL, HTML/CSS
Framework and Tools NodeJs, ReactJs, ExpressJs, Kubernetes, AWS, Terraform, Flask, Tensorflow, OpenCV

Work Experience

Houzz

Palo alto, CA

SOFTWARE ENGINEER

Oct. 2020 - Present

- Implemented a user-friendly website interface using the **MERN** stack (MongoDB, Express.js, React.js, and Node.js) for easy access and management of CI information.
- Developed CI tools (eventhub) using **Python3** and the **Flask** framework for seamless integration with internal services.
- Designed unit tests and API tests pipelines on a dynamic **Kubernetes** environment
- Deployed and maintained cloud native CI/CD platform used by engineering team on **AWS EKS** cluster
- Reduced staging environment deployment time by **50%** through the implementation of a patch feature and optimization of code.

Workboard

Redwood City, CA

SOFTWARE ENGINEER IN AUTOMATION

May. 2019 - Oct. 2020

- made RESTful API more testable in PHP to cover **20%** more test cases
- implemented internal test tool in **ExpressJS** for QA team and deployed on Jenkins
- Oversaw the integration of data initialization scripts in **Docker** for developer environment setup

China Mobile Group Hangzhou Information Technology Co., Ltd

Hangzhou, Zhejiang, China

SOFTWARE ENGINEERING INTERN IN MACHINE LEARNING

Jun. 2018 - Sep. 2018

- Built data-sets for video text recognition including intercepting subtitle clips in the videos by **OpenCV**
- Effectively implemented the CRNN text recognition model based on **Tensorflow** for OCR recognition project with a **74%** test accuracy
- Drove verification of feasibility of a natural scene and end-to-end text localization and recognition model **SEE** based on **FSNS** datasets

Selected Academic Projects

News and Movies Wechat Mini-Programs

Online Course

UDACITY NANO DEGREE

Oct. 2018 - Feb. 2019

- Drove comprehensive implementation of **user-interactive news mini-programs** with lists, swipe-to-refresh, and classified graphic display
- Developed a **movie mini-program** with user login, random recommendations, text and phonetic comments
- Oversaw the design of page layouts and styles utilizing **WXML** and **WXSS** to build a back-end platform through **Tencent Cloud** and **NodeJS**

Pig Face Identification

Santa Cruz, CA

TEAM MEMBER

Sep. 2017 - Dec. 2017

- Utilized **OpenCV** to better capture images for **30+** different pig videos for test datasets
- Identified pictures of **30** different species of pigs through implementation of transfer-learning methods based on **MXNet**
- Collaborated with a high performing team to ensure **85%** accuracy of the train dataset and **.5** Logistic Loss of the test dataset

Education

University of California, Santa Cruz

Santa Cruz, USA

M.S. IN ELECTRICAL ENGINEERING | GPA: 3.5/4.0

Sep. 2017 - Mar 2019

Chongqing University of Posts and Telecommunication

Chongqing, China

B.S. IN TELECOMMUNICATION ENGINEERING | GPA: 84/100

Sep. 2013 - Jul. 2017

Publication

Optimal Transmit Antenna Placement for Short-Range Indoor 3D MIMO channels

Barcelona, Spain

IEEE WCNC

Apr. 2018