

# Yushan Wang

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## EDUCATION

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### University College London

Sep 2021 – Jun 2022

Master of Science in Computer graphic, vision and imaging

### University Of California, San Diego

Sep 2017 – Dec 2020

Bachelor of Science in Computer Engineering

*Major GPA: 3.87/4.0*

Bachelor of Science in Applied Mathematics, Minor in Economics

*Major GPA: 3.96/4.0*

## WORK EXPERIENCE

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### SWE Intern

June 2021 – Aug 2021

JiuYang Media

*Beijing, China*

- Participated in the development of the Cloud-based Facial Recognition Platform, and developed a classifier model, to achieve facial recognition in extreme conditions.
- developed a program of blurred image processing for the Image Extraction Team.
- Ran daily process for daily cloud platform maintenance and monitoring of the database.

### Data Analyst

Feb 2021 – June 2021

IQIYT

*Beijing, China*

- Used SQL and Excel for analyzing user data collected from the application pingback, aiming to improve the current product marketing tactics.
- Developed python script in Jupyter notebook to allow users to access the intl-mirror, IQIYT's data warehouse, in order to automatically process and analyze the daily user data to provide to the website design team.
- Designed new functionalities for IQIYT's BI platform, published new BI reports and responsible for daily data maintenance.

### Product Development Intern

June 2020 – Aug 2020

China CITIC Bank

*Beijing, China*

- Designed a beta page for client facial recognition login by using HTML5/CSS3/JS for the front end design and deep learning models for face verification.
- Assisted with maintaining the existing Mobile Banking website, responsible for daily web scraping, and testing the system.
- Analyzed, cross compared the transfer fee, exchange rate fee, arrival speed from 8 different national level banks through SQL and tableau.

## RESEARCH PROJECTS

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### Cloud Image Comparison service

June 2021 – Sep 2021

Research Project, supervised by Prof.Jean-Claude Franchitti

*Remote, Online*

- developing an algorithm to automatically filter out the duplicates of photos and create a ranking of the duplicates in the cloud Storage.
- experimenting different cloud storage platforms to deploy the comparison service.
- architect a Web scraper to mine essential images from unsplash.com for algorithm training.

### COVID-19 Face Mask Detector

Mar 2020 – June 2020

Capstone research project; supervised by Prof.Zhuowen Tu at UC San Diego

*San Diego, CA*

- Created an artificial face(with mask) image dataset containing 10,000+ facial images covered with masks by compositing masks to faces with the detected facial landmarks.
- Applied OpenCV to handle and process live-stream video footage, and applied a pre-trained model for face detection.
- Designed a face mask classifier by adapting the VGG-16 network, trained and tested on the artificial masked face dataset.

### Speech to Text Diagnosis Records

May 2018 – June 2018

Competition Project for 2018 HLTH Future of Healthcare Forum

*Las Vegas, CA*

- Applied Google Cloud speech to text API to transcribe medical diagnosis to texts.

- Developed a simple website that could be used to enter patient information and the recorded diagnosis with transcription.

### **"One Off" Meeting Scheduler WebApp based on React**

Sep 2019 – Dec 2019

Course Project, System Analyst in the group, Supervised by Prof. Gary Gillespie

*San Diego, CA*

- Used Firebase as an online database to store users' information and meeting details.
- Used Material UI in React for web development to complete the entire front end website design and Google Calendar API to allow users to easily merge their schedules to our website.

## **TECHNICAL SKILLS**

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**Programming Languages:** Java, Python, R, C/C++, SQL, JavaScript, HTML/CSS

**Frameworks:** React, Node.js, WordPress, Latex, Markdown

**Developer Tools:** Git, VS Code, PyCharm, IntelliJ, Eclipse

**Software skills:** MS Office, Adobe Premiere, Photoshop, SOLIDWORKS

## **SERVICE**

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### **GRE Verbal Teaching Assistant**

July 2021 – Aug 2021

TestDaily Education

*Beijing, China*

- Gave remote online TA sessions to 30 college students and kept records of their homework performance to help them acquire greater knowledge for GRE Verbal sections.

### **Undergraduate Teaching Assistant**

Sep 2019 – Dec 2020

University of California, San Diego

*San Diego, CA*

- 2020 Fall, UCSD COGS 185, Advanced Machine Learning Methods, taught by Prof. Zhuowen Tu
- 2020 Fall, UCSD Math 10C, Calculus III, taught by Prof. Au Benson
- 2020 Spring, UCSD Math 187A, Introduction to Cryptography, taught by Prof. Alina Bucur
- 2020 Winter, UCSD Math 20C, Calculus III for Science and Engineering, taught by Dr. Rudolph Perkins
- 2019 Fall, UCSD Math 10B, Calculus II taught by Dr. Rudolph Perkins

## **HONORS**

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Quarterly Provost's Honor starting from 2017 to 2020 at UC San Diego.