

# Yinghao (Howard) Wang

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## EDUCATION

### University of California, Los Angeles

*Expected June 2021*

*Bachelor of Science in Computer Science and Engineering*

**3.8/4.0 GPA**

- Upsilon Pi Epsilon Inductee (top 33% of my class with Junior standing)
- Deans Honor List (GPA above 3.7)

## EXPERIENCE

### Vertebrae, Santa Monica

*June 2018 - September 2018*

*Software Engineering Intern*

- Used React.js with Redux along with Node.js, MongoDB, PostgreSQL, AWS S3 and AWS Redshift to create an e-commerce advertising platform
- Utilized React.js and three.js to construct an augmented reality builder, allowing users to create customized augmented reality experiences of advertised products

### Qualcomm, San Diego, CA

*August 2017 - September 2017*

*Software Engineering Intern*

- Created a face recognition app for face unlocking on Android phones
- Used OpenCV in C++ for face and eyes detection and tracking with the Android Native Development Kit
- Utilized Caffe and lightened CNN models for facial feature extraction and face recognition

### Qualcomm, San Diego, CA

*July 2016 - August 2016*

*Software Engineering Intern*

- Used OpenCV in C++ to capture 3D point clouds of faces with an RGB-D camera
- Rendered 2D images from the 3D point clouds using the Point Cloud Library for 2D face recognition

## ACTIVITIES/PROJECTS

### UCLA Unmanned Aerial Systems

*September 2017 - Present*

*Member*

- Implement character recognition on drones with the computer vision team using Tensorflow
- Utilized OpenCV and YOLO to design a convolutional neural network for real-time shape detection on drones under a Linux system and wrote Linux shell scripts to train the model
- Implemented the ground station interface for easy drone mission control with React.js and Python

### UCLA Association of Computing Machinery (ACM)

*September 2017 - Present*

*Member*

- Used the Tensorflow library in Python and machine learning algorithms such as linear regression, convolutional neural networks, generative adversarial networks, etc. to classify images (with 96% accuracy) from the MNIST dataset and generate fake images
- Constructed a personal website using HTML, CSS, and JavaScript
- Built an online music player using React.js, Node.js, MongoDB, and Google Cloud Storage

*ACM Board Dev Team Officer*

- Implemented new features, such as administrator privileges, on the ACM membership portal and the ACM website, with React.js, resulting in over 700 users

## TECHNICAL SKILLS

- Proficient in C++, Java, Python, Linux systems, OpenCV, JavaScript (3 years)
- Proficient in HTML, CSS, Node.js, React.js, TensorFlow, MongoDB, SQL (2 years)