

# Yinghao (Howard) Wang

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## Education

### University of California, Los Angeles

*Expected June 2021*

*Bachelor of Science in Computer Science and Engineering*

**3.78/4.0 GPA**

- 2018 Upsilon Pi Epsilon Inductee (Junior class standing and top 33% of my class)
- Deans Honor List (GPA above 3.7)
- Coursework: Data Structures, Object-oriented programming, Software Construction Lab

## Experience

### Vertebrae, Santa Monica, CA

*June 2018 - September 2018*

*Software Engineering Intern*

- Created a responsive UI for an augmented reality e-commerce web advertising platform using React.js with Redux
- Implemented a RESTful API with Node.js, AWS S3, AWS Redshift, MongoDB, and SQL for companies to create, read, update, and delete 3D models and assets
- Utilized three.js to construct an augmented reality builder, allowing users to create customized augmented reality experiences with their products of choice

### Qualcomm, San Diego, CA

*August 2017 - September 2017*

*Software Engineering Intern*

- Created an Android face recognition app for face unlocking on select Android phones
- Implemented the face enrollment and recognition UI with Java and XML files
- Used OpenCV with C++ for face and eyes detection and tracking with the Android Native Development Kit
- Utilized Caffe and lightened convolutional neural network models for facial feature extraction and face recognition

### Qualcomm, San Diego, CA

*July 2016 - August 2016*

*Software Engineering Intern*

- Used OpenCV in C++ and captured face point clouds with an RGB-D camera to collect data for 3D face recognition
- Mapped the 3D point clouds to 2D images with the Point Cloud Library API and used the images for 2D face recognition through a convolutional neural network
- Achieved 92% accuracy for face recognition

## Activities/Projects

### UCLA Association of Computing Machinery (ACM)

*Member of ACM Hack*

*September 2017 - Present*

- Created a personal website with HTML, CSS, and JavaScript
- Built an online music player, using JavaScript to create a responsive UI and Node.js with MongoDB and Google Cloud Storage to construct a RESTful API

*Dev Team Officer on ACM Board*

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

### UCLA Unmanned Aerial Systems

*September 2017 - Present*

- Implemented the ground station interface for drone mission control with JavaScript, CSS, and Python

## Technical Skills

- Proficient in programming with Java, C/C++, Python, JavaScript Linux systems, Git (3 years)
- Proficient in coding with HTML, CSS, Bootstrap, React.js, Redux, Node.js, MongoDB (2 years)