

# Howard Wang

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## EDUCATION

**UC SAN DIEGO**  
**BS IN COMPUTER SCIENCE**  
Expected 2021 | La Jolla, SD  
Major GPA: 3.5

## LINKS

Portfolio:// [h-wang.me](http://h-wang.me)  
Github:// [hwanggit](https://github.com/hwanggit)  
LinkedIn:// [hwangprof](https://www.linkedin.com/in/hwangprof)

## COURSEWORK

Data Structures  
Embedded Systems  
Computer Assembly  
Mathematical Modeling  
Data Science and Analysis  
Circuit Design and Analysis  
Discrete Mathematics  
Unix Scripting  
Block-chain

## SKILLS

Languages  
HTML/CSS • JQuery/Javascript  
Python • Node • C • Java • C#  
Latex • PHP • R • Matlab • Bash  
Software/Tools  
Google Cloud Vision • Flickr API  
Firebase • Raspberry Pi  
VIM • Bash Shell • Github  
Git Version Control • Unity  
AutoCAD • MS Office

## AWARDS

**Top 3 out of 20**  
Placed 3rd out of 20 teams in  
UCSD IEEE Quarterly Projects  
Competition, creating a medically  
assistive IoT device for patients, and  
developing a live patient dashboard.

**Top 3 out of 25**  
Placed 3rd out of 25 teams in  
Mayor's Youth Council Hack-a-thon  
2017 for designing a prototype app  
that increases accessibility to the  
city's parks and amenities for Hikers.

## PROJECTS

**EASY TOUR | AI WEB APP FOR TOURISM**  
March 2019 | Los Angeles, CA

- Developed an AI web app for Tourism that maps out your trip for you.
- Implemented color-to-emotion model using Google Vision to tag Flickr photos.
- Performed RESTful API calls and CRUD operations to JSON files using Node.js
- Rendered 3-D interactive map routes using HTML and MapBox GL JS.
- Tools: HTML/CSS, Node.js, Google Cloud Vision, Flickr API, MapBox API.

**PI FOR PARKINSON'S | IoT AND SOFTWARE**  
January 2019 - March 2019 | San Diego, CA

- Lead a team of 3 in UCSD IEEE Quarterly Projects Competition Winter '19.
- 3-D printed a medically assistive IoT device for Parkinson's Patients.
- Used Raspberry Pi, python, servos to read from IMU and correct symptoms.
- Created clean and stunning dashboard to chart data from Firebase.
- Tools: HTML/CSS, Node.js, Chart.js, Firebase, I2C, Python.

**ACACHOIR.UCSD.EDU | PROFESSIONAL WEBSITE**  
December 2018 – Present | San Diego, CA

- Created professional website for school org, hosted on UCSD web server.
- Used bootstrap to create professional UI/UX web layout and pages.
- Implemented interactive read-and-listen webpage for learning songs.
- Customized features to fit organization's primary advertising needs.
- Tools: Bootstrap, HTML/CSS and Javascript/JQuery.

**DL-DESIGN.NET | DESIGNER'S PORTFOLIO**  
December 2018 | San Diego, CA

- Commissioned by a friend to create her Interior Design portfolio.
- Integrated UI features such as background parallax, Navbars, and more.
- Integrated mobile functionalities such as collapsible and draggable sidenav.
- Created fullscreen modal sliders using carousels and overlays.
- Tools: Materialize, HTML/CSS and Javascript/JQuery.

**LIFEWATCH2.0 | SD HACKS 2018**  
October 2018 | San Diego, CA

- Lifeguard trainer created with Unity, SteamVR, and VIVE controller.
- Created VR UI/UX environment using Unity objects and packages.
- Programmed VIVE controller and Unity object functionalities in C#.
- Worked in team of 4 called LifeWatch2.0 for SD Hacks 2018.
- Tools: Unity, SteamVR API, Vive API, C#.

## LEADERSHIP

**UCSD A CAPPELLA CHOIR | DIRECTOR OF EXTERNAL AFFAIRS**  
Sept 2018 - Present | San Diego, CA

- Appointed Director of External Affairs for UCSD A Cappella choir club.
- Handles external affairs such as outreach, sponsorships, and marketing.
- I developed a business-ready website for club updates and events.
- I am a bass section leader and teach A Cappella singing techniques.