

# Howard Wang

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## EDUCATION

### UC SAN DIEGO

#### BS IN COMPUTER SCIENCE

Expected 2021 | San Diego, CA

Major GPA: 3.53

## LINKS

Personal:// [h-wang.me](http://h-wang.me)

Github:// [hwanggit](https://github.com/hwanggit)

LinkedIn:// [hwangprof](https://www.linkedin.com/in/hwangprof)

## COURSEWORK

P/NP Algorithms

Java/C++ Data Structures

Data Science with Python

ARM Assembly Language

Computer Architecture

Unix Scripting

## SKILLS

### Languages

C++ • C • Java • Javascript

PHP • CSS • HTML

GraphQL • Python • Swift

### Software/Tools

JQuery • Git • React Native

React • Django • SQL

Unix • Google Cloud • Unity

## AWARDS

### Top 3 out of 20

Placed 3rd out of 20 teams in  
UCSD IEEE Quarterly Projects  
Competition

### Top 3 out of 25

Placed 3rd out of 25 teams in  
Calgary Mayor's Youth  
Council Hackathon 2017

## EXPERIENCE

### SOFTWARE ENGINEER | VIBELY INC.

July 2019 - Present | Menlo Park, CA

- Full-stack mobile engineer at Forbes-featured social media company
- Shipped 20+ features for 30K global followers of celebrity meetup groups
- Doubled user retention and tripled user acquisition over the course of 3 months
- Developed flagship features like notification toasts, animated drag-down menus, navigation toolbars, authentication flows, forms, user search and more
- Wrote GraphQL queries & mutations with resolvers to fetch/update database
- Employed agile development in a scrum setting and tracked sprints in Trello
- Utilized Git and Fastlane for mobile DevOps and Circle CI to maintain CI/CD
- Tools: React Native, TypeScript, GraphQL, AWS RDS, Branch.io, OneSignal

## LEADERSHIP

### PROJECT CHAIR | INSTITUTE OF ELECTRICAL & ELECTRONIC ENGINEERS

June 2019 - Present | San Diego, CA

- Proposed \$10,000 budget plan host 3 quarterly project competitions
- Managed 30+ student teams to create marketable hardware/software products
- Developed Django-SQL-HTML web app to streamline applicant scoring
- Acquired career sponsorships from Texas Instruments, SES, ECE department

## RESEARCH

### RESEARCH ENGINEER | SMARTFIN

April 2019 - June 2019 | San Diego, CA

- Worked with team of 4 to model ocean wave behaviour using Python
- Developed wave direction model by applying Kalman filter to IMU data
- Used Python Scikit & Jupyter to label surf data and filter out outliers
- Created Smartfin github wiki page to present research data and report

## PROJECTS

### COURSEWORK | ADVANCED DATA STRUCTURES

Sept 2018 - June 2019 | San Diego, CA

- Implemented the following: Huffman encoding/decoding tree
- KNN classifier with KD Tree, trained on large text files
- Multi-edge graph to store IMDB actor-movie relationships
- BST/BSA trees, and BFS/DFS, Dijkstra, A\* algorithms
- Tools: C++, C, GDB, Vim, Valgrind

### EASY TOUR | EMOTIONAL TOURISM (LA HACKS 2018)

March 2019 | Los Angeles, CA

- AI web app that selects tourist hot-spots and renders an interactive trip
- Filtered Flickr images by emotional content & geolocation with Google Vision
- Developed Mapbox UI layers and search features with HTML, CSS, JQuery
- Tools: Node.js, HTML, CSS, Javascript, PHP, Google Vision, Flickr API, MapBox

### HACKEYE.IO | HARDWARE FINDER APP (FOUNDER)

July 2018 | San Diego, CA

- Swift finder app that lists nearby Hackaday hardware projects for collaboration
- Built Yelp-like UI with Swift/Xcode and created location service from scratch
- Tools: Swift, Objective-C, Hackaday API, CoreLocation, Xcode