

# Howard Wang

h-wang.me | luw055@ucsd.edu | 858.405.7271

## EDUCATION

### UC SAN DIEGO

BS IN COMPUTER SCIENCE

Expected 2021 | San Diego, CA

Major GPA: 3.72

## LINKS

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

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

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

## SKILLS

Languages

C++ • Java • Javascript

PHP • CSS • HTML

GraphQL • Python • Swift

Software/Tools

JQuery • Git • React Native

React • Django • SQL

Unix • Google Cloud • Unity

## AWARDS

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

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

## COURSEWORK

P/NP Algorithms

Java/C++ Data Structures

Data Science with Python

ARM Assembly Language

Computer Architecture

Unix Scripting

## EXPERIENCE

### SOFTWARE ENGINEER | VIBELY INC.

July 2019 - Present | Menlo Park, CA

- Full-stack mobile engineer at Forbes-featured IRL meetup services company
- Shipped 20+ features for viral groups Subtle Asian Traits, Girls Gone Global
- Doubled user retention and tripled user acquisition over 3 months
- Developed flagship features like notification toasts, animated drag-down menus, navigation toolbars, authentication flows, forms, user search, 10 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 to fund 3 project competitions for UCSD students
- Managed 30+ teams to create marketable hardware/software products
- Developed Django-SQL dashboard web app to automate administrative tasks
- Acquired sponsorships from Texas Instruments, SES, and the ECE department

## RESEARCH

### RESEARCH ENGINEER | SMARTFIN (ENGINEERS FOR EXPLORATION)

April 2019 - June 2019 | San Diego, CA

- Worked in a team of 4 to model the behaviour of ocean waves using Python
- Developed algorithm to model wave direction using Kalman filter on IMU data
- Utilized Python Scikit ML algorithms in Jupyter console to label wave features
- Created Github wiki with Markdown to catalog Smartfin research reports

## PROJECTS

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

March 2019 | Los Angeles, CA

- Javascript web app that selects tourist hot-spots to render an interactive trip
- Labeled Flickr images with emotional content & geolocation via Google Vision
- Developed Mapbox UI layers and search features using HTML, CSS, JQuery
- Tools: Node.js, HTML, CSS, Javascript, PHP, Google Vision, Flickr, MapBox

### C++ DATA STRUCTURES | COURSEWORK (UC SAN DIEGO)

Sept 2018 - June 2019 | San Diego, CA

- Implemented bit-size Huffman algorithms to compress and decompress files
- Trained multi-dimensional KD tree KNN classifier with over 70% accuracy
- Built multi-edge graph and MST using unordered maps and disjoint sets
- Developed Multi-way Trie algorithms for prefix search and autocomplete
- Tools: C++, C, GDB, Vim, Valgrind

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

July 2018 | San Diego, CA

- Hardware collab app shows nearby Hackaday.io projects for tech-enthusiasts
- Built Yelp-like UI with Swift/Xcode and created location service from scratch
- Tools: Swift, Objective-C, Hackaday API, CoreLocation, Xcode