

Howard Wang

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SPECIALTIES

FULLSTACK MOBILE
FULLSTACK WEB

EDUCATION

UC SAN DIEGO

BS IN COMPUTER SCIENCE

Expected 2021 | San Diego, CA

Major GPA: 3.61

LINKS

Personal:// h-wang.me

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

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

SKILLS

Languages

Javascript • C++ • Python

GraphQL • Java • CSS

HTML • PHP • Swift

Software/Tools

JQuery • Git • React Native

React • Unix • Django

SQL • Google Cloud • Unity

AWARDS

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

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

EXTRACURRICULAR

IEEE UCSD Branch

Chinese Martial Arts

A Cappella Choir

Fingerstyle Guitar

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
- Achieved 3-month milestone goals of 2x user retention and 3x user acquisition
- 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 & tracked sprints with 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

PROJECTS CHAIR | IEEE UCSD (WWW.IEEEQUCSD.COM)

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
- Tools: Django, Python, MySQL, HTML, CSS, Javascript

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 statistical model for 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
- Tools: Python, SciKit Learn, Jupyter Notebooks

PROJECTS

EASY TOUR | TOURISM (EASY-TOUR-2019.HEROKUAPP.COM)

March 2019 | LA Hacks 2019

- Created Javascript app that selects tourist hot-spots to render 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 Ternary Trie algorithms for prefix search and autocomplete
- Tools: C++, C, GDB, Vim, Valgrind

HACKEYE.IO | HARDWARE IOS APP (FOUNDER)

July 2018 | San Diego, CA

- Project finder that 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