

Howard Wang

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EDUCATION

UC SAN DIEGO

BS IN COMPUTER SCIENCE

Expected 2020 | San Diego, CA

SKILLS

Languages

Javascript • HTML • CSS

Python • C++ • GraphQL

MySQL • Java • Swift

Software/Tools

JQuery • Node.js • React Native

Git • Unix • Django • React

MongoDB • Google Cloud

AWS RDS • AWS Lambda

LINKS

Personal:// h-wang.me

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

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

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/JQuery

PROJECTS

DEVBOT | ALEXA APP ([HTTPS://DEVBOT2019.HEROKUAPP.COM](https://devbot2019.herokuapp.com))

Oct 2019 | SD Hacks 2019

- Singlehandedly created Alexa app that automatically generates Java code
- Leveraged Firebase and MongoDB to pass queries between multiple endpoints
- Developed custom Alexa Skills model and deployed to AWS Lambda using Jovo
- Defined MongoDB schemas to store shortcut commands and Java code blocks
- Tools: AWS Lambda, MongoDB, Alexa Skills Kit, Node.js, Firebase, Jovo, Bootstrap, Javascript/JQuery, HTML, CSS

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 Cloud
- Developed Mapbox UI layers and search features using HTML, CSS, JQuery
- Tools: Node.js, Bootstrap, HTML, CSS, Javascript/JQuery, Google Cloud, Flickr, MapBox, TweenMax.js, GreenSock.js

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: Java, 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