

Howard Wang

SOFTWARE ENGINEER · ED-TECH ENTHUSIAST · ENTREPRENEUR

Vacaville, CA 95688

☎ (858) 405-7271 | ✉ luw055@ucsd.edu | 🏠 h-wang.me | 📱 hwanggit | 🌐 hwangprof

Work Experience

Vibely Inc.

Belmont, CA

SOFTWARE ENGINEERING INTERN

July 2019 - Sept 2019

- Produced and shipped new UI/UX features for social networking & meetup app as a front end mobile developer
- Engineered toast notification, community creation, user search, and share link features to increase user retention
- Wrote schemas and resolvers to fetch & update GraphQL API layer and performed AWS CloudSearch queries on RDS database
- Worked in agile Scrum setting, tracked Sprint Backlog in Trello and heavily utilized mobile DevOps & CI/CD tools such as Fastlane
- Languages and Frameworks: React Native, Javascript, TypeScript, GraphQL, Prisma API, AWS CloudSearch, Branch IO, OneSignal

IEEE UCSD Branch

San Diego, CA

QUARTERLY PROJECTS CHAIR

June 2019 - Present

- Elected Projects Chair for UCSD IEEE and requested \$10,000 in department funding to host quarterly innovation competitions
- Managed and mentored 25+ student project teams to develop, document and pitch marketable software & hardware products
- Developed automated scoring software & dashboard web interface to streamline applicant screening and submission processes
- Reached out to company representatives from Surcle and JSOE department officials to provide sponsorship, judging and careers
- Languages and Frameworks: Django, Python, HTML, CSS, Javascript, SQL, Bluehost

Kumon Inc.

Calgary, AB

TUTOR/TEACHING ASSISTANT

July 2016 - July 2017

- Taught higher level mathematics to advancing Kumon students in topics such as integral calculus, trigonometry, vector algebra
- Corrected with feedback on 100+ pages of daily homework sets and worked out solutions one-on-one with struggling students
- Managed and recorded student progress metrics and statistics in Kumon cloud database using desktop data entry software

Education

University of California, San Diego

La Jolla, CA

B.S. IN COMPUTER SCIENCE

Sept 2017 - June 2021

- Provost Honors. Major GPA: 3.53

Projects

Easy Tour (LA Hacks 2019)

Los Angeles, CA

PROJECT TEAM LEAD

March 2019

- Developed a node.js tourism web app that selects destinations based on the user's current mood
- Categorized & filtered photos by emotional content and geolocation using Google Cloud Vision & Flickr API
- Rendered photo gallery of nearby tourist locations and 3-D interactive map routes using MapBox GL API
- Languages and Frameworks: Node.js, HTML, CSS, Javascript, Google Cloud Vision, Flickr API, MapBox API

Smartfin

La Jolla, CA

RESEARCH ENGINEER

April 2019 - June 2019

- Mathematically modeled ocean wave behaviour using IMU data, Kalman filter and quaternions
- Utilized Python machine learning & Jupyter to label wave behaviour and filter out statistical outliers
- Created Smartfin Github wiki page to catalog research milestones and present final research paper

Hackeye.io

La Jolla, CA

PERSONAL PROJECT

July 2019

- Developed Swift finder app that provides a shopping list of nearby hardware projects for collaboration
- Designed robust UI screens using Xcode storyboard & built location service using CoreLocation library
- Languages and Frameworks: Swift, Objective-C, Xcode, CoreLocation, Simulator

Skills

Proficient C, C++, CSS, HTML, Java, Javascript, Python

Intermediate C#, Swift

Tools and Frameworks Firebase, GraphQL, Git, JQuery, Jupyter, Node.js, React, React Native, SQL, Unix, Unity