Howard Wang

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EDUCATION

UC SAN DIEGO
BS in Computer Science
Expected 2021 | San Diego, CA
Major GPA: 3.72

LINKS

Personal:// **h-wang.me**
Github:// **hwanggit**
LinkedIn:// **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 IRL meetup services company
- Shipped 20+ features for viral groups Subtle Asian Traits, Girls Gone Global
- 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

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

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