Howard Wang

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Work Experience

Incoming Software Engineering Intern - ServiceNow   **June 2020 - Sept 2020**
San Diego, CA
o Summer 2020 Intern on Quality Assurance team

Software Engineer (Part Time) - Vibely Inc.   **Sept 2019 – Present**
Menlo Park, CA
o Spearheaded a two month refactoring of the app's home page, improving overall performance by 3x
o Revamped new user experience (NUX) flow by incorporating mobile deep linking and progress animations
o Gamified the product by adding in-app user achievements and badges, increasing user retention by 15%
o Developed end-to-end flow for creating and joining multi-user chat rooms, increasing app usage by 24%
o Technical Skills: React Native, GraphQL, Prisma, Typescript, Node.js, Branch SDK

Software Engineering Intern - Vibely Inc.   **June 2019 – Sept 2019**
Menlo Park, CA
o Worked on end-to-end user features with senior engineers on the Full-stack Mobile team
o Learned new React Native, GraphQL and Prisma technologies in less than two weeks
o Developed two core app features including in-app message notifications and searching for users
o Built animated sticky chat room headers, allowing users to post weekly announcements to their followers
o Technical Skills: React Native, GraphQL, Prisma, Typescript, Node.js, AWS CloudSearch

Education

University of California, San Diego   **Sept 2017 – June 2021**
Bachelor of Science, Computer Science
Provost Honors, Major GPA - 3.64, GPA - 3.46

Research

UCSD MSK Imaging Lab   **Jan 2019 – Present**
Undergraduate Researcher
o Conducting medical imaging research under radiologist Dr. Won Bae through the Faculty Mentorship Program
o Researching how deep learning can be used to perform image synthesis on large MRI image data sets
o Attempting to speed up pixel-by-pixel T2-mapping by replacing curve-fitting methods with neural networks
o Working with Image Synthesis team to implement a multi-layered perceptron using TensorFlow methods
o In progress of developing a cloud platform for researchers to run ML models on MRI image data sets
o Technical Skills: Python, TensorFlow, PyTorch, Matlab

Projects

DevBot - Alexa Coding Assistant   **Oct 2019**
SD Hacks 2019
o Developed Alexa Skill that communicates with a web app and prints boilerplate code for developers on command
o Leveraged Firebase and MongoDB to pass real-time Alexa voice queries and starter code between endpoints
o Technical Skills: Firebase, MongoDB, AWS Lambda, Alexa Skill, Node.js, Jovo, Javascript, Bootstrap

Easy Tour - Travel Recommender   **March 2019**
LA Hacks 2019
o Built end-to-end web application that recommends destinations to tourists based on their travel mood
o Implemented Node.js server to batch label images from Flickr API using Google Cloud Image Annotator API
o Developed model to sort labeled images into different mood categories and used MapBox to display travel routes
o Technical Skills: Javascript, Node.js, Express, Bootstrap, Google Cloud Vision API, Flickr API, MapBox API

Technical Skills

Javascript, Typescript, HTML, CSS, Python, Java, C, C++, Swift, Haskell, React, React Native, GraphQL, Node.js, Firebase, MongoDB, AWS, MySQL, Prisma, Branch, Google Cloud, TensorFlow, Matlab