Junhong Pan (Paul)

Walnut, California
panjunhong05@gmail.com
+1 (626) 691-8088
https://github.com/paulpan05
www.linkedin.com/in/jpan05

Education

University of California, San Diego	June 2022
Bachelor of Science, Computer Science	GPA: 3.45

Projects

Divergent Engineering Team – Honey4Groceries iOS Project   **November 2018 to Present**

o   Designed the front-end GUI for Honey4Groceries, an iOS app that provides consumers the best deals on grocery shopping.
o   Implemented location services, which is used to search for the nearest stores via Foursquare. Developed with PromiseKit to simplify asynchronous callbacks with location updates and authorizations.
o   Developed framework for calling Chomp's API with the use of HTTP requests to obtain grocery information from barcode.
o   Languages and Frameworks: Swift, PureLayout API, Foursquare Places API, Chomp API, SwiftyJSON, PromiseKit

Solutions to Climate Change Website | junhongpan.com/wcwp-climate – Hosted on GitHub   **February 2019 to Present**

o   Launched an informative website targeting an audience alarmed about climate change and suggesting what they should do.
o   The Chart.js library is utilized to design an interactive chart on carbon footprint doing certain activities.
o   Languages and Frameworks: HTML, CSS, JavaScript, Bootstrap, Chart.js

ECE Open Source Projects – Facebook Messenger Bot   **January 2019 to Present**

o   Messenger assistant for the ECE department, allowing users to perform tasks such as RSVP and FAQs searching with messages.
o   Contributed to the development of scheduled event reminders sent via Facebook messages.
o   Languages and Frameworks: Python, Flask, MongoDB, pymessenger wrapper, Heroku

Interactive Layered Map   **December 2018**

o   Developed a web application that supplies real-time traffic, air quality, satellite imagery, and public transportation routes data in the form of multiple layers on a world map, leveraging Leaflet.js JavaScript library for layering management.
o   Languages and Frameworks: HTML, CSS, JavaScript, Leaflet.js, Mapbox JS API, Google Maps API, Thunderforest API, WAQI API

GeoCalculator   **May 2017**

o   Windows application intended to be utilized as a travel companion for traveling between two places.
o   Established the graphical user interface using Tkinter, along with the logic for obtaining distances, flight time, time difference, and geographical information between two locations on earth.
o   Leveraged HTTP requests for obtaining geocoding data, which is exploited in calculations for obtaining application-specific data.
o   Languages and Frameworks: Python, Tkinter, Python Client for Google Maps Services, Google Geocoding API

First Tech Challenge Team – Fusionyx   **June 2017 to June 2018**

o   Software lead and primary contributor of the code base for the First Tech Challenge team named Fusionyx.
o   Worked on motor control as well as small-scale autonomous driving with the FTC SDK.
o   Instructed new members in order to quickly integrate them into the team.
o   Languages and Frameworks: Java, First Tech Challenge SDK

Volunteering and Study Abroad

F+U Academy of Languages (German Language Study) – Berlin, Germany   **August 2018**
One-month language course in Berlin to acquire conversational skills in German.

Volunteering Solutions (Primary School Teaching) – Nairobi, Kenya   **July 2017**
Two-week volunteering in the Kawangware slum, teaching subjects that have shortages of teachers.

Languages and Frameworks

More Familiar	Java, JavaScript, Python
Familiar	Swift, HTML, CSS
Frameworks	Flask, MongoDB, Firebase, JUnit, Node.js, Bootstrap

Relevant Coursework

Object-Oriented Programming in Java, Object Oriented Design, Basic Data Structures, Discrete Mathematics, Vector Calculus, Linear Algebra, UNIX Commands and Version Control