PAUL JEROME R. HERNANDEZ

Los Angeles, CA - pjhernan@usc.edu - (765) 464-9977

github.com/pjhernandez18 | linkedin.com/in/pj-hernandez | pjhernandez18.github.io

TECHNICAL SKILLS

Strong: Java, C++, HTML, CSS, Bootstrap, MySQL
Experienced: Javascript, C, Node.js, Express, Python, Swift, Heroku, Git, AJAX, jQuery, Jekyll, Django, Docker, MATLAB, Confluence, Arduino, Raspberry Pi, Nordic Semiconductors
Operating Systems: Linux/UNIX, Windows, Mac OS

WORK EXPERIENCE

Undergraduate Research Assistant, **USC Autonomous Networks Research Group**   **Sep 2018 - Dec 2018**
- Streamlined deployment workflow for integration with other services by Dockerizing an IoT online marketplace platform's Django framework, MQTT pub-sub backend, and MySQL service
- Wrote SRS documentation including installation, setup, and use of beta platform to aid third party developers to contribute to the code base and tech stack

Software Engineering Intern, **Lantrn Ltd, Hong Kong**   **May 2018 - Aug 2018**
- Used Jekyll to simplify static web content, including the airline reviews and FAQ pages for their website
- Implemented firmware logic using Keil MDK to generate unique serial numbers for over 250 Lantrn suitcases
- Reduced time spent on testing hardware functionality by up to 90% by writing a bash script that uses Nordic CLI commands to automate installation of firmware and hardware functionality tests
- Optimized testing phase in final stage of factory assembly by packaging firmware test cases and test protocols in a Python executable

PROJECTS & LEADERSHIP

Global Student Fellow, **Sage Corp**

Publications: sagecorps.com/blog/2018/8/2/a-day-in-the-life-hong-kong
- Selected to be part of a global entrepreneurship program that matches college students with tech startups abroad

VP of Technology, **USC's The Supper Club**

Club website and restaurant suggestion application - thesupperclubsc.com
- Built the club's website from the ground up using a Bootstrap 4 UI kit
- Integrated Yelp's Fusion API to create a restaurant suggestion system that allows club members to engage with the club

Backend Engineer, **Track Changes**

Music-streaming mobile application - github.com/pjhernandez18/TrackChanges
- Created a Java web socket endpoint to facilitate JSON requests/responses from the client to the backend
- Improved code modularity to handle all client requests to the backend and MySQL database
- Reduced response time to client sessions by storing session IDs into a hash map

EDUCATION

University of Southern California, Los Angeles, California
B. S. Computer Science, GPA: 3.64
Viterbi School of Engineering, Expected 2020

Relevant Courses Taken: Data Structures, Object-Oriented Design, Algorithms and Computing, Software Engineering, Distributed Systems and the Internet of Things, Computer Systems, Embedded Systems