

# PAUL JEROME R. HERNANDEZ

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## EDUCATION

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### University of Southern California (USC)

Los Angeles, CA (2017 - Present)

- B. S. Computer Science
- Cumulative GPA: 3.52/4.0
- Honors: Viterbi Engineering Dean's List

### Relevant Courses Taken

Data Structures, Object-Oriented Design, Algorithms and Computing, Software Engineering, Distributed Systems and IoT, Intro to Computer Systems, Embedded Systems

## WORK EXPERIENCE

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### USC Autonomous Networks Research Group

Los Angeles, CA (Fall 2018)

Undergraduate Research Assistant

- Streamlined deployment workflow for integration with other services by Dockerizing an online data marketplace for IoT devices called i3
- Executed software test cases and filed software bugs found in cross-platform projects, resulting in smooth pre-verification and formal verification cycles
- Containerized the platform's Django framework, MQTT pub-sub protocol, and MySQL services

### Lantrn (smart suitcases)

Hong Kong (Summer 2018)

Software Engineering Intern

- Implemented firmware logic in C using Keil MDK to generate unique identification parameters for over 250+ Lantrn devices
- Wrote a Python algorithm that reduced time spent on testing hardware functionality by up to 80% through automation tool development using Python's OS library and Nordic's command line interface
- Optimized factory assembly stage by 20% by packaging firmware test cases and test protocols in a Python executable for Lantrn's factories in Shenzhen, China

## SKILLS

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**Proficient in:** Java, C++, C, Unix/Linux

**Prior experience in:** Python, Swift, HTML/CSS, Javascript, React, JSX, jQuery, AJAX, Node.js, Express  
MySQL, Docker

**Frameworks & Tools:** Git, Trello, Asana, Confluence, Firebase, Heroku, Postman, TravisCI, Pippo (Java)  
Agile Frameworks, Scrum Methodologies

## LEADERSHIP AND PERSONAL PROJECTS (VIEW CODE ON GITHUB)

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### Product Manager for Token at USC's LavaLab

Jan 2019 - Present

- Developed a four-month product life cycle plan for an iOS app, Token, which allows users to document and share their travel experiences through photos and videos seamlessly
- Designed Token iOS view controller structure and co-led the implementation of 10+ app features
- Pitched product, user acquisition, and monetization strategy for Token iOS as part of an annual showcase

### Backend Developer for i'm hungry

Feb 2019 - May 2019

- Designed and built the Java backend for a restaurant and recipe suggestion system under Maven build configurations and Travis CI
- Utilized Postman to query Yelp Fusion API and Spoonacular API endpoints
- Modularized backend by using separate routes using Java micro web framework called Pippo

### CS Tutor at USC Joint Educational Program

Fall 2018 - Present

- Volunteered to tutor high schoolers from nearby school districts in the Greater Los Angeles area various computer science concepts in Java
- Java topics include syntax, variables, strings, arrays, and complex data structures