Jaime A. Orellana

Software Engineer

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Work Experiences

Internet of Things Group - Automated Driving Group
June 2017 - August 2017

Intel Corporation

- Worked on Automated Driving domain with a focus on data upload from vehicle to cloud
- Dealt with the ROS framework inside the vehicle
- Utilized python and ROS API libraries to adapt data for optimal streaming formats of rosbag data
- Created SFTP system in Python to upload TB rosbag data to servers using SSH keys
- Studied different high volume data upload protocols like UDT, and GridFTP

Software Engineer
May 2016 - August 2016

Hackmates @ Princeton University's eLab Accelerator

- Created models for a database incorporating user profiles, teams, and hackathons to generate a platform allowing users to create teams for hackathons
- Set up hosting using AWS Elastic Beanstalk, served static files using S3, and hosted site database on RDS
- Performed load balance testing on website to test up to 10k users with Locust, a Python library
- Conceptualized user login process flow and emphasized utilizing wireframes

Projects & Extracurriculars

Sphere

PennApps @ University of Pennsylvania

- Created a RESTful API using Flask as the backend of our iOS app.
- Setup client communication with the Capital One Nessie API, an API giving us leverage to simulate user bank transactions
- Restful API had endpoints for various different user test cases like the creation of user accounts, managing user bank accounts money (transfer, deposit, withdrawal)
- Set up server communication to the Clarifai API, a machine learning API for image recognition. This let us use the user's face as a confirmation for payment.

Slothsure

HackPrinceton @ Princeton University

- Implemented an arduino project that detects changes in orientation at the shoulders to determine if the back of the user is slouching, and alerts them to fix their posture.
- Created web app that keeps track of the number of times the user attempts to slouch in a predetermined duration of time.

Kindrone | Third Place Hack

Dragon Hacks @ Drexel University

- Developed a program in C# with Visual Basic that used the Kinect sensors to communicate with an AR.Drone using the KinectSDK and ARDroneSDK. This let you control the drone with hand gestures.

Major Way | Best Education Hack

Hoya Hacks @ Georgetown University

- Created a website application in Flask that takes in an uploaded four-year major curriculum and returns a graph of the most relevant subtopics in the major using natural language processing. Front-end design was completed using JQuery and Bootstrap.

Vice President and Co-Organizer of Hackathon
May 2016 - Present

UMBCHackers and HackUMBC

- Attended over 20+ hackathons with other UMBCHackers
- Helped market and organize a 500+ hackathon event
- Lead team of 10+ members to start and completion of hackathon event
- Generated and ran 6+ club workshops teaching HTML, CSS, Javascript, git, and Flask, resume building and interview preparation

Education

Bachelor of Science in Computer Science
August 2014 - May 2018

University of Maryland, Baltimore County | Major GPA 3.02