Jason Ramirez

Using Data to Build a Better Tomorrow

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Education

Bachelor of Science in **Computer Engineering @ Iowa State University** in Ames, IA
Expected Graduation: **Spring 2018** | Cumulative GPA: **3.74**

Projects

- Feed Me Recipes: Developed a **Neural Network** for **NLP** using **Keras** and **Python** to build a Facebook Messenger Chatbot that allows users to ask for recipes based on an ingredient list

- Climate Change Tracker: Using historical data from around the globe, visually shows the increase in temperature as well as a prediction for the future, built with **Node** and **Angular**, Data from **Kaggle**

- Crâvo: A shared economy **Android** Application strictly targeted at having shoppers at Wal-Mart pick up items for other users who are currently located on the shopper's route to their next destination

- Mars Autonomous Rover: In my **Embedded Systems** class, I developed in **C** to have a Roomba, outfitted with sonar and infrared sensors, to navigate an obstacle course on its own

Experience

The Boeing Company – Software Engineering Intern: Software Engineering Tools and Environment   2017
- In **Python** using **scikit**, built a model to match fault code data with airline mechanic prognosis
- Wrote Front End and Server Side code in **JavaScript** (Knockout) and **Java** (Spring MVC)

Procter & Gamble – Software Engineering Intern: Modeling & Simulation   2016
- Built a model of a palletizer in **C#** and used a **Genetic Algorithm** to increase the speed by **25%**
- Developed a web app to notify palletizer techs when the palletizer will need maintenance

PCI Pharma Services – Safety Intern: Human Resources   2015
- Produced an application using **VBA** to find, track, organize, and create Job Safety Info Sheets

Involvement

HackISU – Operations Chair   2017 – Present
- Planning a bi-annual hackathon, from food to transportation, as well as hosting tech talks

ComS 227 Intro to Object-Oriented Programming – Teaching Assistant   2016 - Present
- Leading a lab of **40** students and holding office hours to mentor students about programming

IEEE Eta Kappa Nu Honor Society – Member   2016 - Present
- Helping students with Computer Engineering homework questions in a help room

Society of Women Engineers – SWE U Ambassador   2016
- Motivated high school girls to pursue engineering during SWE University Camp

Society of Hispanic Professional Engineers – Conference Chair   2015 - 2017
- Lead a team to get as many ISU SHPE members to national conferences within a budget

NASA Centennial Challenge/Cyclone Student Launch Initiative – Avionics Team   2015 - 2016
- Built a simulation in **C++** to interface with a microcontroller to test air brake algorithms

Boeing Technical Concepts Project – Galley Cart Brake Team Lead   2014
- Developed and tested ways to make the galley cart **10%** quieter on 777x