Jason Ramirez

815-721-3179 | jp51371@iastate.edu | 3114 Horseshoe Bend, Rockford IL | http://jasonramirez.xyz

Education

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

Experience

The Boeing Company – Software Engineering Intern   Summer 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)
- Helped switch team's tech stack from using ant and clearcase to **Gradle** and **Git**

Procter & Gamble – Software Engineering Intern   Summer 2016

- Did hands-on research to build a model and simulation space of a palletizer in **C#**
- Used palletizer model with a **Genetic Algorithm** from **GAF** to increase the output by **25%**
- Developed a web app with **ASP.NET** to notify palletizer techs when maintenance is needed

PCI Pharma Services – Safety Intern   Summer 2015

- Produced an application using **VBA** to find, track, organize, and create Job Safety Info Sheets

Projects

- Feed Me Recipes: Developed a **Neural Network** for NLP using **Keras, Python** and **MongoDB** to build a Facebook Messenger Chatbot that allows users to search 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** App written in **Java** 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 on a Roomba, outfitted with sonar and infrared sensors, in **C** to navigate an obstacle course on its own

Involvement

ComS 228 Intro to Data Structures – Teaching Assistant   Fall 2017 - Present

- Leading a lecture of **30** students and holding office hours to teach about data structures

HackISU – Operations Chair   Spring 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   Fall 2016 – Spring 2017

- Leading a lab of **40** students and holding office hours to mentor students about programming

Society of Hispanic Professional Engineers – Conference Chair   Fall 2015 – Spring 2017

- Lead a team to get **30+** ISU SHPE members to national conferences within a budget

Society of Women Engineers – SWE University Camp Ambassador   Spring 2016

- Motivated high school girls to pursue engineering during SWE University Camp

NASA Centennial Challenge – Avionics Team   Spring 2015 – Spring 2016

- Built a simulation in **C++** to interface with a microcontroller to test air brake algorithms