

# Jason Ramirez

815-721-3179 | [jp51371@iastate.edu](mailto:jp51371@iastate.edu) | 3114 Horseshoe Bend, Rockford IL | <http://jasonramirez.xyz>



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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 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** 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 on a Roomba, outfitted with sonar and infrared sensors, in **C** 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

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

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

**HackISU** – Operations Chair 2017 – Present

- Planning a bi-annual hackathon, from food to transportation, as well as hosting tech talks

**IEEE Eta Kappa Nu Honor Society** – Member 2016 - Present

- Helping students with Computer Engineering homework questions in a help room

**ComS 227 Intro to Object-Oriented Programming** – Teaching Assistant 2016 - 2017

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

**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
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