

## Education

### **The University of Texas at Austin**

Bachelor of Science in Computer Science with Honors

May 2016 | Austin, TX

GPA: 3.77

## Experience

### **Software Engineering Resident**

Google

July 2016 – Present

Mountain View, CA

- Residency program designed to hone technical skills on Google Engineering teams

### **Software Engineering Intern**

IBM

January 2016 – May 2016

Austin, TX

- Collaborated with the SRE team to support IBM's Bluemix VM service, a public cloud powered by OpenStack
- Wrote Python scripts to monitor IBM's OpenStack Public Cloud using Sensu, an open-source monitoring framework
- Documented and updated runbook with triaging issues related to OpenStack

### **QCT Software Engineering Intern**

Qualcomm

May 2015 – August 2015

San Diego, CA

- Improved and documented a post-processing Java analyzer for Multi-SIM features
- Debugged and enhanced TD-SCDMA Integration web application for various issues using JavaScript and PHP
- Wrote Python scripts to optimize memory footprint and performance of TD-SCDMA code

### **Device Content Engineering Intern**

Alcatel-Lucent

May 2014 – November 2014

Austin, TX

- Executed device/network interoperability testing through data logging and analysis of TR-069, HTTP(s) and TCP/IP
- Identified root causes of device/network issues using Wireshark and provided technical reports for future solutions
- Supported a web application that facilitates database management of fixed devices (Java, JavaScript and SQL)

## Projects

### **Automatic Labor Assignment**

[github.com/ercardenas/Automatic-Labor-Assignment](https://github.com/ercardenas/Automatic-Labor-Assignment)

Summer 2015

- Developed a Python script to automate the member/labor assignment in Halstead College House
- Reduced the time to manually assign member/labor from six hours to one hour (83%)
- Used a personal modified version of Ford-Fulkerson algorithm to find the member/labor assignment

## Skills

### **Technical:**

- Proficient in Java, C/C++ and Python
- Familiar with JavaScript, SQL, HTML/CSS, Android Development, TR-069, HTTP(s), TCP, Wireshark, and Git

### **Foreign Languages:**

- Spanish (native) and English (bilingual proficiency)

## Activities & Leadership

### **Technology Management Officer**

College Houses

June 2013 – May 2015

Austin, TX

- Provided technology support for 80 users by troubleshooting software, hardware and connectivity issues
- Managed a \$1500 hardware/software budget

## Honors & Awards

### **Designated as College Scholar at UT Austin**

2014 – 15, 2015 – 16

- Top 20 percent of my class in College of Natural Sciences