

# Ulises Martinez

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## Education

**Bachelor of Science in Computer Science**

**Anticipated 5/2018**

- University of Texas at El Paso
- GPA: 3.7

## Experience

**UNIVERSITY OF TEXAS AT EL PASO, CYBERSHARE iLINK LAB** | Undergraduate Research Assistant

January 2017 - Present

- Lead of a research project about ontology visualizations. Developed a web application to create and modify ontologies graphically. The goal was to enable non-technical users to create, view, and edit ontologies, strengthening the interdisciplinary research at CYBERSHARE.

**UNIVERSITY OF TEXAS AT EL PASO, CENTER FOR TRANSPORTATION AND INFRASTRUCTURE SYSTEMS** | Undergraduate Research Assistant

May 2016 - January 2017

- Created a GIS application for soil categorization in the state of Texas. The application was web based and worked using ESRI API. Backend optimization was required in order to make the application load faster.
- Developed a tool to model structural properties of asphalt specimens that were subjected to strain in the overlay tester (OT) machine. The tool read large input files and allowed users to visualize the data as well as store runs for reference without having to run the tool again.

October 2015 - April 2016

- Created a Content Management System (CMS) for the research projects within CTIS. This allowed researchers to easily manage and share their project's resources.
- Developed a Java application to "trim" the output files of specific testing machines. The application recognized data patterns that were useful for the research that was being conducted.

## Skills

C/C++ • PHP • Java • Python • SQL • Javascript • OWL • XML • GIS • GIT • SVN • BASH

## Projects

**BacheGo (August 2016)**

- A game-like app to improve the mobility and ecology in Juarez, Mexico.
- Uses GIS along with crowdsourcing in order to make a game of taking care of your city.
- A UX similar to PokemonGo
- Won first place in CampusLink Hackathon

**CookPal (April 2016)**

- Web Application that suggests recipes based on the items in your pantry.
- Useful ways of updating your pantry database including voice recognition using Tropo API.
- Gathers recipe data from multiple sources.

**ClockMe (December 2015)**

- Software for businesses to keep track of their employees working hours.
- Generates pdf reports that employees need to sign and turn-in to accounting department.
- Supports multiple ways of checking in including iPad and fingerprint reader.