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JUSTIN R. PARRA

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EDUCATION

El Paso, TX **University of Texas at El Paso** **Fall 2015 – Spring 2018**

- B.S. in Computer Science, Spring 2018. Current overall GPA: 3.73. major GPA: 3.78

El Paso, TX **Chapin High School** **Graduated Spring 2015**

- Graduated top 10%, Project Lead the Way Magnet and Distinguished Achievement Program Grad with a GPA of ~3.695, AP Scholar with Honor from College Board, Technology Student Association National qualifier and state competitor, Business Professionals of America state finalist, and National Honor Society member

ENGINEERING EMPLOYMENT

COOP Technical I **AT&T** **Jan 2017 - Present**

- Created a solution for the management of microwave sites across the United States for use by internal microwave engineers. Transformed an excel workbook site, that was clunky and unintuitive, to a modern site that now provides real-time data and provides for further expandability. The solution drastically simplified the process of creating, editing, and maintaining pertinent data relating to the operation of the microwave sites, saving approximately 2-man hours per engineer every entry. The solution's restful API provides an interface for automation that saves over 200+ man hours on audits a year. By leveraging the robustness of the Angular framework, the site alleviates the need to spend precious time maintaining the site. Finally, the solution included the following technologies: Angular 4, NodeJS, and MSSQL.
- Continued work on an internal AT&T weather information site. The site combined feeds from a variety of sources which are used to provide forecast and current weather information. Sources included, but not limited to, Satellite, Radar, Accu-weather Enterprise Services, and internal SMACK database feeds. The website employed the AngularJS framework and ASP .NET backend.

Student Researcher **University of Texas at El Paso** **Summer 2016 - Present**

- Working closely with professors from the department of computer science on a project whose goal is to improve upon current methods of predicting volcanic behavior, using Recurrent Neural Networks
- Created a three-dimensional viewer for seismic events relating to volcanic eruptions. The tool helped the team visualize events leading up to a volcanic eruption. The tool was created using the open source Electron framework

ADDITIONAL EXPERIENCE, LEADERSHIP, AND VOLUNTEER ACTIVITIES

- Institute of Electrical and Electronics Engineers (IEEE/IEEE-CS)
- Mexican-American Engineer Society (MAES)
- Society of Hispanic Engineers (SHPE)
- Theta Chi Fraternity
- El Paso Aspire Mentoring Academy Volunteer
- El Paso Humane Society Animal Handler (2 yrs)
- El Pasoans Fighting Hunger Food Bank Volunteer
- FAA Student Pilot
- Certified in Adobe After Effects and Premiere Pro

Languages and Technologies

- TypeScript; JavaScript; C; Java; C#; Python; PHP; Haskell; MSSQL; MongoDB
- Angular 2+; AngularJS; Vue; NodeJS; Webpack; Git; Native Script; Unity; Android; Linux
- Visual Studio; Atom; Jet Brains WebStorm; Adobe Premiere Pro; Adobe After Effects; Autodesk Maya

Publications

- Parra, Justin; Fuentes, Olac; Anthony, Elizabeth Y.; and Kreinovich, Vladik, "Prediction of Volcanic Eruptions as a Case Study of Predicting Rare Events in Chaotic Systems with Delay" (2017). Departmental Technical Reports (CS). 1132.
- Parra, Justin; Fuentes, Olac; Anthony, Elizabeth Y.; and Kreinovich, Vladik, "Use of Machine Learning to Analyze and -- Hopefully -- Predict Volcano Activity" (2016). Departmental Technical Reports (CS). Paper 1053