Dilan Raul Ramirez Ramirez

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EDUCATION

University of Texas at El Paso

Bachelor of Science in Computer Science   **Expected Graduation Date:** May 2021

Overall GPA: 3.5, Computer Science GPA: 3.5

Computer Science Courses: Data Structures and Algorithms, Discrete Mathematics, Data Base Management, Advanced Object-Oriented Programming, Computer Architecture, Computer Security, Data Mining, Design/Implementation Prog Languages, etc.

Mathematics, Physics, and other Courses: Differential Calculus, Integral Calculus, Vector Calculus, Differential Equations, Introductory Mechanics, Statics, Mechanics, Probability & Statistics, and Linear Algebra.

TECHNICAL SKILLS

- Programming languages: Python (intermediate/advanced), HTML(intermediate), PHP (intermediate), JavaScript (intermediate), C (intermediate), Java (beginner), SQL (beginner), Bash (Beginner), Haskell (beginner), Go (beginner), Prolog (beginner), Dart (beginner)
- Experience: CSS, jQuery, ArcGIS, Google Earth Engine, Geographic Information Systems, Flask, React, React Native.

EXPERIENCE AND ACTIVITIES

Tacotote TacoCulture *Scholarship*   **February 2020 – Present**

- The Tacolture Scholarships by Tacotote are based on the UTEP community of access, leadership and success to assist students on their pathway to graduate. The purpose is to help students growth academically and professionally in the El Paso-Juarez and UTEP region.

The University of Texas at El Paso   **March 2019 - Present**

Undergraduate Assistant I / Web Developer (Full-Time Student / Part-time Job)

- Working on the Arctic Research Mapping Application (ARMAP) Viewer and 3D Viewer. Displaying projects from the National Science Foundation (NSF), Office of Polar Programs, and seventeen U.S. federal and state providing an extensive view of Arctic science. (armap.utep.edu/armap_viewer/)
- Working on the Arctic Observing Viewer (AOV). Displaying thousands of sites with projects. Focus on policymakers, program managers, science planners, logistics planners, and data management specialists. (arcticobserving.utep.edu/aov_3d/)
- Updating, refreshing, and improving ARMAP Viewer and AOV Viewer. Bringing and present a stylish-minimal design to the website. Making and constructing tools for a general audience with easy-to-use gadgets to analyze and interpret information.
- Building and designing the Above Spectral Library Viewer (ASTRAL) which shares spectral data across the domain of NASA's Arctic and Boreal Vulnerability Experiment (ABoVE) domain. (prodgis02.utep.edu/astral_viewer/)
- Developed and creation of python automating scripts in workflows to get and add data to databases. This resulted in making processes easier to human, less tedious data managing, time saving, increased productivity, and a better product quality.

El Paso Community College   **October 2018 – December 2018**

Student Technology Services Staff

- Updated and gave maintenance support to the school computers by recovering information, restoring and repairing computers. Fortifies and rehearses my computer's hardware knowledge gaining new skills and ability to work with computer tools.
- Assisted 15 faculty members and staff, 25 students with more than 20 multi-media classrooms on average per day, teaching them how to use professional, scientific, and high-tech gadgets.

Universidad Popular Autonoma del Estado de Puebla Press   **August 2014 – December 2014**

Department Assistant

- Interviewed and recorded more than 15 different remarkable people who visited us. Improved my ability to communicate with influential people, boosted my confidence, increased my self-control and conversation articulation.

PROJECTS

Systems Ecology Lab Website

- Developed the website of the lab in which I work using Squarespace, YouTube, Gimp, and Microsoft Office tools.

Irrigation Web Application

- Developing a web application to keep track crop wellness and to determinate the water needs, estimating the actual evatrasnporation (ETa) Using technologies such as Google Earth Engine satellite images and python's framework Flask. More information at dilanramirez.com

AGU Advancing Earth and Space Science Presentations Abstracts

- Kassin, A., Barba, M., Gaylord, A., **Ramirez, D. ~R**., Manley, W. ~F., Tweedie, C. ~E. (2019). The Arctic Research Mapping Application (ARMAP): a Geoportal for Visualizing Project-level Information About U.S. Funded Research in the Arctic. AGU Fall Meeting Abstracts. Poster.
- Kassin, A., Barba, M., Gaylord, A., **Ramirez, D. ~R**., Manley, W. ~F., Tweedie, C. ~E. (2019). The Arctic Observing Viewer (AOV): Visualization, Data Discovery, Strategic Assessment, and Decision Support for Arctic Observing. AGU Fall Meeting Abstracts. Poster.