



TECHNICAL ENVIRONMENT

Languages: C++, R, Python, Ruby, Javascript, Java, HTML/CSS
Software: Visual Studio 2015, Android Studio, Eclipse, RStudio
Platforms: Windows 10, Linux
Source control: GIT

PROFESSIONAL EXPERIENCE

Research Assistant, UTRGV Computer Science Department

Spring 2019 - Present

- Collaborating with Dr. Marzieh Ayati to research Kinase Substrate prediction in cancer.
- Created a web application in R/R-Shiny that allows users to upload their own datasets to create the kinase substrate prediction method for their data.
- [Poster Presentation] D. Acevedo, H. Irisson, C. Aguillon, **M. Ayati**. "R web interface for kinase substrate predictions", the UTRGV School of Medicine Research Symposium (2019)

Research Assistant, UTRGV Computer Science Department

Summer 2017 – Fall 2018

- Collaborated with Dr. Megan Strait to research Social Systems in Robotics.
- Created a web application in Javascript that will be used to conduct a behavioral experiment to determine the social interaction of humans with robots.

Assistant Manager, Kato Sushi

Feb. 2018 – Jan. 2019

- Learned how to manage large teams.
 - Got first-hand experience in how to run and maintain a personal business in the restaurant industry.
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EDUCATION

Bachelor of Science in Computer Science, Minor in Management

The University of Texas Rio Grande Valley, Edinburg, TX

Graduation Date: May 2019

GPA: 3.65 / 4.0

Relevant coursework:

- Software Engineering I
- Database Design/Implementation
- Algorithms & Data Structures
- Internet Programming

Projects:

- Phosphoproteomics Analysis: A web application developed in R-Shiny for the prediction of kinase substrates in cancer.
 - SnapSnack!: A campus-specific website that allows college students order food or deliver food to other students. Implemented the back-end of the website, as well as set up the stripe API to charge.
 - Lookit!: A memory game application for Android designed to help people with ADHD. It contained several levels and had the implementation of Firebase to keep score of the users' time and score.
 - Rio Grande Valley Hunting Game: A windows console game that used a directed graph and breadth-first search for the user to hunt for Pokémon as they arrive to their destination using the shortest path.
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EXTRACURRICULARS

- Women Together Fall 2017, Fall 2019
 - General volunteer
 - Sexual assault advocate: 2-week sexual assault and domestic violence training
 - Bilingual Education Student Organization (B.E.S.O) Spring 2016
 - Volunteer at several events like PalmFest, and local fundraising events.
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AWARDS

- President's List Fall 2017, Spring 2019
 - First place in the 14th annual Computer Science Senior Research Spring 2019
 - Grace Hopper Celebration Scholar Fall 2018
 - Dean's List Fall 2015 – Spring 2016
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SKILLS

- Bilingual: can speak, write, and read Spanish and English proficiently.
- Multimedia Specialist: certified in PowerPoint, Word, Access, Excel, and Adobe Dreamweaver CS6.