

Yumiko Dianne J. Balotro

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EDUCATION

The University of Texas
Rio Grande Valley
Bachelor of Science
Major in Computer Science
Minor in Business Administration
Current GPA: 4.0
Expected Graduation Date:
Spring 2025

SKILLS

- Website Development (HTML, CSS, JavaScript, Express.js, PUG)
- C++
- Cascade CMS
- R and R Studio
- Database Management in Prisma
- API Integration
- Data Analysis and Visualization
- GitHub and Visual Studio Code

RELEVANT COURSEWORK:

- Computer Science II
- Mathematical Foundations of Computer Science
- Linear Algebra
- History of Computing (Study Abroad – London)

ACTIVITIES:

- Brazilian Jiu Jitsu at the RGV Fight Club
- UTRGV Freshman Leadership Academy Member
- IEEE Brownsville Member
- Frontera Hacks 2022 Hackathon Participant

OBJECTIVE

As a passionate *Computer Science* major with a deep interest in *web development, data analysis, and research*, I am eager to contribute my skills and knowledge to dynamic projects that make a positive impact. With a strong commitment to learning and growth, I am excited to collaborate with cross-functional teams and embrace new challenges that further expand my expertise while driving innovation and sustainability.

EXPERIENCE

Web Developer, June 2022 – Present

UTRGV's Office for Sustainability

- Spearheaded the creation of a visually captivating website to showcase UTRGV initiatives and contributions to sustainability in the Rio Grande Valley.
- Increased the site's interactivity by 137.5% in unique page views by utilizing advanced front-end technical skills like Flexbox, CSS Grid, and JavaScript.
- Led office initiatives to research campus commitment to sustainability and joining efforts with the UTRGV IT department to develop the UTRGV interactive map.
- Orchestrated state-wide conference initiatives by facilitating communication between multiple Texas universities, fostering sustainable partnerships, and promoting shared learning.
- Fostered strong partnerships with full-time university developers, learning with their expertise and support to drive seamless website development and address complex technical challenges.

Research Assistant, May 2023 – Present

Bioinformatics Research with Dr. Marzieh Ayati

- Utilized the R programming language extensively to investigate and bridge the gap in knowledge of protein modification processes and their implications in physiological diseases such as Alzheimer's and cancer.
- Transformed 80,000+ data entries into insightful visualizations, enhancing the connections primary protein modifications.
- Collaborated with Dr. Ayati and a team of other researchers, applying data analysis skills to extract meaningful insights.

Web Master, May 2023 – August 2023

College of Engineering and Computer Science: Salinity Site

- Managed college website that measures, predicts, and visually organizes salinity concentration data of water in the Rio Grande Valley.
- Employs technical skills in API calls with Express.js, JavaScript, Pug, and Prisma to create a dynamic and user-friendly platform.
- Drives the implementation of a robust download function, enabling users to access and download salinity data from a private API in CSV format.
- Leverages problem-solving skills to overcome technical challenges and optimize the download function's performance.