Belinda Alvarado

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EDUCATION

The University of Texas Rio Grande Valley   Edinburg, Texas
Master of Science in Computer Science   *Graduation: Fall 2026*
- GPA: 4.0, Officer of Frontera Devs, Member of SWE

Bachelor of Science in Computer Science
- Graduated Magna Cum Laude, President of Frontera Devs, Member of SHPE

EXPERIENCE

University of Texas Rio Grande Valley

Graduate Research Assistant   *Aug 2024 - Present*
- Mastered and applied microsatellite analysis, in 1 month by processing 1,449 samples to support research pipeline.
- Constructing GUI software in **Python** for Medfly genetic data analysis to reduce reliance on external tools and decrease human error by 30%.
- Conducted literature reviews on bioinformatics techniques, enhancing team knowledge and promoting efficient practices in haplotype determination and Bayesian clustering, reducing reliance on multiple software tools.

Instructor   *Aug 2024 - Present*
- Implementing a curriculum focused on foundational topics and career exploration in computer science, achieving an average 72% pass rate on quizzes.
- Developed practical demos, including the game Snake in **Python**(Tkinter) and a personal interest website using **HTML** and **CSS**, to enhance their hands-on experience.
- Grading 90+ labs weekly and providing personalized feedback to 47 students.

Society of Hispanic Professional Engineers
Peer-to-peer Tutor   *Jan 2023 - June 2024*
- Conduct user testing on tutoring platform start-up, Papaya, to identify needed development fixes.
- Provide peer tutoring for Algorithms & Data Structures in **C++**; increased student retention rate by 18%
- Received 50% of student registration and conducted weekly tutoring sessions.

PROJECTS

Website: Frontera Hacks - NestJS web application
- Built using **Next.js** with **Tailwind CSS** and **Typescript**.
- A web application that allows users to register for and learn about Frontera Hacks (Hackathon at UTRGV).
- URL: fronterahacks.org

Capstone Project: Trimming Trends - Flutter mobile application
- Designed in **Figma** and built using, **Dart** (Flutter), style GAN2 model, **Google Firebase** Database, and Replicate AI.
- An application that allows the user to replace their hair with a different hairstyle.

LEADERSHIP EXPERIENCE

Frontera Devs
President/Officer   *May 2022 - Present*
- Led recruiting/marketing efforts, managed workshops and grew organization from 300 to 700+ members.
- Co-Pioneered Frontera Hacks 2023, a MLH Official hackathon for 150+ attendees city-wide.
- Assisted with front-end development of Frontera Hacks 2024 website in **Next.js**, creating the landing/home page.
- Led Intro to Firebase workshop, guiding attendees on incorporating **Firebase Authentication** into their projects

SKILLS

- **Languages:** Python, C++, Typescript, JavaScript, HTML, CSS, Dart, MySQL
- **Dev Tools/Frameworks:** GitHub, Next.Js, React.Js, Tailwind CSS, Flutter, Google Firebase, JIRA, Figma, Agile
- **Communication:** Fluent in English & Spanish.