Hector Sustaita

✉ sustaitah03@gmail.com | 📱 (956)703-8686 | 🔗 Hector Sustaita | 🔗 Hect0r3rd

EDUCATION

University of Texas Rio Grande Valley (UTRGV)   Aug 2022 – Dec 2025
Bachelor of Science in Computer Science
Relevant Courses: Database Design, Data Mining, Data Structures and Algorithms

TECHNICAL SKILLS

Languages: C++, Python, Java, JavaScript, TypeScript, SQL, Ruby
Frameworks/Tools: React, Node.js, Next.js, Flutter, Git, JavaFX
Databases/Platforms: Supabase, Jupyter Notebook, Google Colab

WORK EXPERIENCE

Handlingo – Software Developer & Co-Founder   Jan 2025 – Jun 2025

- Co-founded an ASL learning startup app using a landmark-based computer vision model for real-time sign recognition (< 100 ms latency), enhancing accessibility for learners.
- Integrated the model directly into the app to remove external API latency and deliver a smoother, responsive user experience.
- Designed a Supabase architecture supporting real-time progress tracking and seamless multi-user scalability.

Teaching Assistant – Computer Science, UTRGV   Oct 2023 – Present

- Guided 100+ students in software design, development, and testing using Java, C++, and Python.
- Conducted code reviews and provided actionable feedback, improving code quality and maintainability.
- Facilitated group projects and one-on-one mentoring, fostering collaboration and agile problem-solving.

PROJECTS

AI NPCs(Python, Jupyter Notebook, Git, Public API, Open AI GPT)   Fall 2023

- Built an AI-driven NPC dialogue system using OpenAI GPT for dynamic, context-aware player interaction.
- Developed a custom API pipeline to process player inputs and generate realistic in-game responses, earning 90%+ positive participant feedback.
- Collaborated in a 4-member team managing Git-based version control and integrated AI modules into a working prototype.

LEADERSHIP & INVOLVEMENT

Hackathon Organizer & Technical Lead – Frontera Devs   Aug 2023 – Present
University of Texas Rio Grande Valley

- Launched a mentorship program pairing 25 mentees with experienced developers, boosting engagement and retention.
- Led technical workshops on Git, databases, and web frameworks for 100+ students, strengthening the local developer community.