Luis Carlos Garcia

McAllen, Texas, United States of America

+1 (956) 735-4232 | FIX ME | FIX ME | FIX ME

Summary

Computer Science B.S. student (GPA: 4.0) with project experience building a Pathfinding Visualizer (Pygame) and a rocket-club telemetry pipeline (string parsing + metrics extraction + FastAPI backend for frontend use). Strong in Python/C++, data structures & algorithms, performance-minded problem solving, and Git/GitHub collaboration.

Education

University of Texas Rio Grande Valley   *Edinburg, TX*
BACHELOR OF SCIENCE IN COMPUTER SCIENCE, GPA: 4.0   *August 2024 - Present*
- Relevant Coursework: Algorithms & Data Structures, OOP, Discrete Math, Operating Systems, Organization of Programming Languages

Projects

Rocket Launching Club
ROCKET TELEMETRY PIPELINE   *Feb. 2026 - Present*
- Ingested raw transmitter strings and built a robust parser to extract key telemetry fields and derived metrics.
- Implemented validation and sanitization, then structured the data for consistent downstream use.
- Exposed processed telemetry through a FastAPI backend endpoint consumed by a frontend dashboard.

Personal Project
PATHFINDING VISUALIZER (WEB)   *Oct. 2025 - Present*
- Implemented BFS, Dijkstra, and A* pathfinding in C++ and structured the logic for visualization.
- Built a React web UI to display grid-based exploration and shortest-path results interactively.
- Focused on clean algorithm separation, predictable state updates, and clear visual feedback for comparisons.

Extracurricular Activities

IEEE, Frontera Devs, Rocket Launchers, SHPE, VAMOS Student Org.
MEMBER   *Aug. 2025 - Present*
- Participated in software-focused activities and collaborated on technical projects across engineering-focused student organizations.

Honors & Awards

University of Texas Rio Grande Valley
UTRGV PRESIDENT'S LIST

University of Texas Rio Grande Valley
UTRGV PRESIDENTIAL SCHOLARSHIP RECIPIENT

Hispanic Scholarship Fund / VAMOS
HSF + VAMOS SCHOLARSHIP RECIPIENT