Alex Gomez

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Skilled professional looking to find a full-time position in software development. Easily adaptable, team player, and eager to learn; I am always looking for a new challenge and will apply myself to whatever opportunity is presented.

Education

Texas A&M University – BS in Aerospace Engineering, Minor in Computer Science   May 2023
GPA: 3.18

Experience

Software Engineer, Bell Textron – Hurst, TX   July 2023 – Present
- Implemented software solutions in C, C#, and Python enabling progression of platform development
- Designed and developed proof of concept for embedded data protection services resulting in the approval of project with 6 additional team members
- Led development of high level test strategies for avionics software with cross-functional collaboration with the System Integration Lab

Aerospace Engineer Intern, Textron Systems - Cockeysville, MD   May 2022 – Aug 2022
- Undertook autopilot development and integration for unmanned air systems
- Developed tools for flight test analysis using MATLAB, JavaScript, HTML, and Excel
- Reduced subscale testing workflow by 25%, resulting in increased workflow & hours saved per flight test

Propulsion Engineering Intern, Textron Aviation – Wichita, KS   May 2021 – Aug 2021
- Researched and identified a root cause for the Fuel System on the Longitude line of aircraft utilizing a flight database
- Examined and adjusted tolerances for holes in the ribs of the fuel tank in CATIA V6 to account for flaws in production & revising drawings for an upcoming XLS+ block point change
- Met weekly with Propulsion team to discuss project updates and goals for the group

Projects

MoviePicker   github.com/gomeii/MoviePicker
- Full Stack web application utilizing React, Express, and MongoDB for exploring movies and tv-show data
- Implemented search and save functionality for movies and TV shows, leveraging the OMDb API for search queries and MongoDB for managing user profiles and CRUD operations.
- Containerized the application using Docker, streamlining deployment and ensuring a consistent environment across development and production.

Desert Swallow   github.com/DesertSwallow/402Design
- Aerospace capstone design project to design and build a plane for the given use case of that year
- 1st semester of the project consisted of designing a racer plane given an example RFP for the Reno Air Race
- 2nd semester of the project consisted of building a scaled-down version of the plane designed

Skills

Programming: Python, C/C++, C#, JavaScript, React.JS, Express.JS, Bash/UNIX, HTML/CSS, MATLAB, Docker, MongoDB
Systems Engineering: CAMEO, Simulink, DOORS
CAD: Solidworks, CATIA, SolidWorks, XFLR5, AAA
Language: English, Spanish (Fluent)