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.

Skills

Programming: Python, C/C++, C#, JavaScript, Flutter/Dart, Node.JS, React.JS, Express.JS, Bash/UNIX, HTML/CSS, GIT
Systems Engineering: CAMEO, Simulink, DOORS
Tools: Visual Studio, Visual Studio Code, Mongo Compass, Docker Desktop, Azure DevOps, Android Studio, Postman
Language: English, Spanish (Fluent)

Experience

Software Engineer, Bell Textron – Hurst, TX   July 2023 – Present

- Designed and implemented a C# module for document creation and test validation reducing manual input and improving efficiency.
- Led development of high level test strategies for avionics software with cross-functional collaboration with the System Integration Lab
- Led the development and modeling of digital identity and data sanitization cyber services in SysML, translating stakeholder requirements into precise, actionable technical specifications that aligned with program objectives and NIST standards.

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 development environment

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

Education

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