# **Alex Gomez**

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### 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, MongoDB (NoSQL), Docker, Azure DevOps, Android Studio, Postman

Language: English, Spanish (Fluent), French (Beginner)

## Experience

**Senior Software Test Engineer,** Bell Textron – Hurst, TX **Software Test Engineer,** Bell Textron – Hurst, TX

August 2025 - Present June 2024 - August 2025

- Designed and maintained automated testing pipelines in Azure DevOps to support CI workflows across Linux, RTOS, and avionics test benches, enabling staged validation from simulation to Hardware-In-The-Loop testing.
- Developed and versioned C# libraries for the Bell Avionics High Level Testing Framework, published as NuGet packages from build pipelines in ADO to Artifactory for consistent and reusable test integration.
- Automated the full test lifecycle—from requirement-linked test cases to result reporting—with integrated metrics dashboards for traceability and continuous improvement.
- Built developer tooling to programmatically interface with Azure DevOps, IBM DOORS, and Artifactory, reducing friction and accelerating of various workflows across engineering teams.
- Authored comprehensive documentation and guides for configuration, testing, and reporting systems, enabling cross-team onboarding, standardization, and sustained maintainability.

#### Product Cybersecurity Engineer, Bell Textron – Hurst, TX

July 2023 - June 2024

- Decomposed high-level cybersecurity requirements into detailed system, subsystem, and component specifications for Bell's FLRAA program utilizing MBSE tools.
- Delivered technical presentations directly to customers in response to Requests for Action (RFA), clarifying design decisions and requirement traceability for cybersecurity services.

#### Education

Texas A&M University – BS in Aerospace Engineering, Minor in Computer Science

May 2023

## **Projects**

#### RestaurantRandomizer

github.com/gomeii/RestaurantRandomizer

- Built custom geolocation-based search and rendered real-time map markers with responsive UI updates.
- Developed an interactive **restaurant selection web application** with a randomized wheel animation, enhancing user engagement.

#### MoviePicker

github.com/gomeii/MoviePicker

- Engineered RESTful APIs to handle movie search, user authentication, and CRUD operations on saved content
- Integrated OMDb API to retrieve and display structured movie and TV show metadata.
- Built reusable **React** components for dynamic search and user profile views; configured Docker containers for local development and deployment.

#### Early Experience

#### Aerospace Engineering Intern, Textron Systems – Cockeysville, MD

May 2022 - Aug 2022

- Developed flight test analysis tools using MATLAB, JavaScript, and HTML, reducing subscale testing workflow time by 25%.
- Supported autopilot integration for unmanned aerial systems, contributing to embedded systems reliability.

## Propulsion Engineering Intern, Textron Aviation - Wichita, KS

May 2021 – Aug 2021

• Investigated fuel system defects using flight data and updated CATIA V6 models to support tolerance fixes and drawing revisions