Alexander Gomez

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EDUCATION

North Carolina State University - Raleigh, NC — Major GPA: 3.63/4.0
Bachelor of Science: Computer Science, AI concentration — Expected Graduation: May 2027

EXPERIENCE

Collins Aerospace - Winston-Salem, NC **Jun-Aug 2025**
Software Engineer Intern

- Developed a scalable C# tool to reprogram and validate multiple embedded modules over CAN Bus messaging protocol
- Collaborated with Electrical Systems Engineers to gather software requirements and map tool functionality
- Followed a full Software Development Life Cycle, including requirements analysis, design, implementation, testing, and deployment, ensuring a robust and maintainable tool
- Reduced Software update maintenance time for the tool from 2 weeks to 1-2 days (85% reduction) by redesigning the tool to support multiple software file types

Collins Aerospace - Winston-Salem, NC **Jun-Aug 2026**
Software Engineer Intern

- Built a full-stack certification management platform adopted by 15+ engineers across project, software, and systems teams, incorporating differing stakeholder priorities and reducing document lookup time from 20 minutes to 2 minutes (90% reduction)
- Spearheaded cross-team collaboration with engineering services to unlock previously ungranted Teamcenter SOA API access, building an automated data pipeline for real-time document sync
- Integrated an AI document parsing feature using LangChain and SSE (Server-Sent Events) to deliver instant feedback directly to the UI.
- Participated in code quality and DevOps initiatives by conducting code reviews and optimizing GitLab CI/CD pipelines for team members to ensure deployment standards

PROJECTS

RecipeFlow - Recipe Saver App and Personalized Meal Plan Assistant **Aug 2026-Present**
React Native / FastAPI / SQL

- Developing a recipe saver app to store and retrieve user recipes from over recipe websites, youtube, instagram reels, and written recipes
- Integrated an AI - powered meal plan generator that can create meal plans based on your current saved recipes and lifestyle goals
- Built a RESTful backend API for authentication, web scraping, and recipe management, integrated with a MySQL database for persistent storage

City of Raleigh Crash Analysis Project Lead **Sep 2026-Present**
Python

- Led a 4-person team analyzing 3 City of Raleigh open datasets to determine how traffic volume, location, and driver demographics contribute to crash rates
- Clean and join datasets into a unified dataset, identifying crash patterns to inform traffic safety decisions

CoffeeMaker - Project Lead **Jan-May 2026**
React / Java Spring Boot / SQL

- Lead a 5 person team for a university engineering project, assigning tasks, coordinating responsibilities, and adapting user support based on team members' skill levels
- Facilitated weekly stand ups and planning sessions to keep the team aligned on requirements, timelines, and deliverables.

SKILLS

Languages: Python, Java, Javascript, C#, SQL, C, CUDA, HTML/CSS
Tools: Git, GitLab CI/CD, Linux, AWS, Docker, Azure, Claude Code, EXCEL,
Frameworks: React, Spring Boot, LangChain, ASP.NET, WPF, .Net MAUI, Entity Framework