Alina Sofia Pineda

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EDUCATION

Bachelor of Science in Computer Science   **2026**
Minor in Astronomy   **GPA**: 3.54
University of South Florida (USF), Tampa, FL

Specialization Courses: Data Structures, Software Engineering, Operating Systems, Cryptography Theory and Practice, UI/UX Design, Programming Concepts, Program Design, Computer Architecture, Automata Theory and Formal Languages, Discrete Structures, Linear Systems, Probability and Statistics

SKILLS

Programming Languages: Python, C, C++, C#, SQL, COBOL, HTML, CSS, Assembly Code
Platforms/Operating Systems: Jira, Slack, Git/Github, Figma, Linux, Arduino, Excel, CLion, VS Code
Languages: Native in Spanish and English

PROJECTS

InCollege Platform | COBOL, Jira   October 2025
- Collaborated with a multi-member team to develop a LinkedIn-style career networking platform for students, featuring profile creation, connection requests, skills menus, and messaging.
- Implemented and tested key modules for user authentication, connection management, and profile data storage using structured COBOL files.
- Managed version control and feature integration through Git branching and merging workflows; coordinated sprint tasks using Agile methodologies.

Stock Visualization & Fibonacci Analysis Tool | C# Windows Form   May 2025
- Developed an interactive stock charting application with rubber-band wave selection and automatic Fibonacci retracement visualization.
- Ensured valid wave detection by enforcing peak/valley start points and dynamic confirmation checks in real time.
- Implemented simulation controls (Start/Stop, +/–, Timer) to animate and adjust price movements interactively.
- Created modular rendering functions for Fibonacci lines, rectangles, and wave diagonals to enhance clarity and maintainability.

EXPERIENCE

Undergraduate Research Assistant – RARE Lab, USF, Tampa, FL   October 2025 – Present
- Collaborate on research exploring human-centered robotics, artificial intelligence, and augmented reality interfaces.
- Assist in designing and developing adaptive robotic systems that improve human-robot communication and interaction.
- Implement and test software prototypes using Python, C++, GitHub, and Linux-based tools for real-time data visualization and control.
- Support lab documentation, experiment setup, and integration of computer vision and AI-driven components in robotic platforms.

Resident Assistant, USF, Tampa FL   August 2025 - Present
- Foster a safe, inclusive, and engaging living environment for 30+ residents through community programming, conflict mediation, and peer mentorship.
- Enforce university policies, document incidents, and collaborate with Housing & Residential Education staff to ensure student wellbeing.
- Plan and lead educational and social events promoting academic success, diversity, and campus involvement.

LEADERSHIP AND AFFILIATIONS

Mentor, Society of Hispanic Professional Engineers, USF Student Chapter   September 2024 – Present
- Guided and supported my mentees in their academic and professional growth, helping them navigate their engineering careers.

Member, Society of Women Engineers, USF Student Chapter   August 2023 – Present

HONORS AND AWARDS

USF Gold Scholars Award, Tampa, FL   2022
Latin American and Caribbean (LAC) Scholarship, Tampa, FL   2022