

Ana Guevara Guzman

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Education

University of Puerto Rico, Mayagüez — B.S. in Software Engineering, GPA: 2.70

Expected 2027

Professional Experience

Software Engineering Intern, L3Harris

May 2025 – August 2025

- Engineered and implemented an interactive React dashboard using react-grid-layout with drag and drop functionality, custom widget controls, and state management for seamless UI interactions.
- Automated handbook integration by developing a Python script to pull, install and verify files from Artifactory, eliminating manual intervention and achieving ~98% automation.
- Built robust backend services using Node.js with REST API endpoints for handbook presence verification, and enhanced error handling with toast notifications.
- Spearheaded project collaboration using a suite of tools including Jira, BitBucket, and Confluence for efficient task management, documentation, and version control.
- Participated in weekly SCRUM and Agile meetings to grow professional connections and enhance project motivation and speed.

Front-End UI/UX Engineer Intern, Roadeo Inc

August 2025 –Ongoing

- Redesigned and prototyped a new mobile booking flow using a stepper UI, leveraging Figma to create a streamlined, accessible user experience that adhered to established design systems and WCAG standards.
- Implemented responsive UI components for a new Business Web Dashboard using Dart and Flutter, translating complex designs into a cohesive, cross-platform experience and contributing to a successful product launch.
- Enhanced UX and accessibility by designing and delivering user flows for a new contactless payment feature and implementing a dark mode across the application, validating the design with a WCAG accessibility checklist.
- Contributed to the shared design system by creating new, reusable components and updating documentation, improving scalable UI development and strengthening the company's component library for future projects.

Operations/ System Optimization Intern EcoElectrica Natural Gas Power Plant

Jan 2025 - May 2025

- Co-developed a full scale simulation of the companies Distributed Control System (DCS) with interactive interfaces for valves, pipes, and alarms to provide new hires with a realistic, hands on training environment.
- Led UI/UX design decisions for the DCS simulator, including button layouts, screen navigation, and multi-screen tracking, to ensure intuitive operation and a consistent user experience.
- Automated valve inspection procedures by creating dynamic Excel workbooks with embedded VBA macros, which reduced manual effort by ~85% and significantly accelerated compliance checks.
- Streamlined Finance Department workflows using Power Automate and Python scripts, improving monthly reporting efficiency by over 60% and eliminating redundant manual data entry.

University Relations

President, Association for Computing Machinery, Women’s Chapter (ACM-W)

Jan 2025 – Ongoing

- Led and managed the chapter’s executive board, overseeing strategic planning and the successful execution of all chapter initiatives through effective meetings and communication.
- Planned and executed high-impact events and workshops that enhanced member’s technical skills, strengthened resumes, and built professional confidence.
- Orchestrated high-impact events, workshops, and conferences by coordinating with industry professionals, enriching student engagement, and fostering career development.
- Promoted an inclusive and empowering environment for women and non-binary individuals in computing by fostering career readiness, providing professional development opportunities, and ensuring members were informed about scholarships, internships, and conferences.

Front End Developer, Loxodon-1 Propulsion Team

Jan 2024 – May 2025

- Engineered and developed a real-time telemetry website using HTML, CSS, and JavaScript to visualize engine sensor data with a professional, intuitive, and user-friendly interface.
- Crafted a full-stack user experience by collaborating with the backend team, ensuring seamless integration with data pipelines while creating an accessible user interface for individuals with diverse technical backgrounds.
- Oversaw front-end development for the project, building a responsive and aesthetically pleasing user interface that enabled real-time data visualization and interpretation, emphasizing clarity and ease of use.
- Integrated the frontend with the backend using Docker, ensuring a smooth and cohesive user experience that effectively presented complex engineering data in a simplified, intuitive layout.

Business Lead, Loxodon-1 Propulsion Team

May 2025 – Ongoing

- Managed division wide operations by organizing a team of professionals, overseeing task distribution, and ensuring streamline workflows to maximize efficiency and productivity.
- Oversaw all financial operations for the division including budget allocation, expense tracking, and fundraising, ensuring financial stability and project profitability incorporating automated programs.

- Collaborated with the Project Manager to **develop and implement strategies for outreach and brand recognition**, while also **taking charge of the team official website's management** after the previous webmaster's departure.
- Coordinated workshops, and conferences by connecting with industry professionals, **leveraging valuable information for student professional growth**.

Webmaster (Front End), [Materials Advantage MaAd](#)

Jan 2024 – April 2024

- **Led UI/UX planning** for the website, participating in **SCRUM meetings** to design a student-focused, **magazine-style layout** that ensures an intuitive and engaging user experience.
- **Collaborated with the backend team** to plan page flow and seamless integration, while leveraging **WordPress** and custom **HTML** to overcome platform limitations and deliver an interactive, student-accessible site.
- **Created and maintained a user-friendly website**, focusing on **clean design and easy navigation** to enhance accessibility and information delivery for the target student audience.

Industry Relevant Projects

Portfolio Website | [HTML, JS & CSS](#)

2024

- **Designed and developed an interactive portfolio website** from scratch, utilizing **HTML, CSS, and JavaScript** to showcase projects with a clean, modern aesthetic and intuitive navigation.
- **Delivered a professional and responsive website**, implementing continuous updates to ensure cross-browser compatibility and a seamless user experience on any device.

To-Do List App (DoTo) | [XCode & Swift UI](#)

Ongoing

- **Engineered a productivity application** to enhance task management and organization, featuring an intuitive interface and integrated notifications to help users meet deadlines efficiently.
- **Designed core functionalities** to track tasks and manage lists, with a strong focus on a user-friendly experience.

Meal Planner/Fitness App | [XCode, Swift UI & Figma](#)

Ongoing

- **Developed a personal health and wellness application** that generates customized meal plans and workout routines based on user goals.
- **Conducted user research** to inform key features, including personalized tracking and habit-building tools to promote healthy lifestyles.

Skills

- **Software & Tools:** Visual Studio Code, Sublime Text, Microsoft Office, Google Workspace, Xcode, Eclipse, Docker, Figma, GitLab, Git (GitBash, TortoiseGit), Jira, BitBucket, Confluence, MobaXterm, Dbeaver, MariaDB, Artifactory, React-Grid-Layout Library, Power Automate
- **Programming & Scripting Languages:** Python, VBA (Visual Basic for Applications), HTML, CSS, JavaScript, React, C++, Java, Swift (UI), Node.js (JavaScript runtime), SQL (MariaDB/DBeaver querying)
- **Professional / Soft Skills:** SCRUM and Agile Collaboration, UI/UX Design Thinking, Process Automation, Workflow Optimization, Technical Documentation.