

Ana Guevara Guzmán

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EDUCATION

Polytechnic University of Puerto Rico – B.S Computer Science

Aug 2026 – Dec 2027

Transfer from | University of Puerto Rico, Mayagüez (B.S Software Engineering) / Aug 2022 – Aug 2026

PROFESSIONAL EXPERIENCE

Software Engineering Intern | L3Harris Technologies (IN)

June 2025 – August 2025

- **Platform:** Extended an existing in-house visualization platform using React and MariaDB, adding a new feature with conditional sidebar logic and role-based access controls so only authorized users could view and use it.
- **Dashboard Design:** Led research into widget libraries and layout options to design a customizable, movable widget dashboard, using Bootstrap and Tailwind CSS to define the platform's future look and functionality.
- **Automation:** Built Python scripts to automate the manual upload workflow, reducing manual update time by ~96% and eliminating manual intervention end-to-end.
- **Delivery:** Shipped the project 4 weeks ahead of the August deadline through active participation in Agile ceremonies and code reviews, improving user clarity via tooltips, custom icons, and interactive hover states.

Front End Engineer / Lead Designer & Co-Founder | Roadeo Inc.(SJ)

Aug 2025 – Jul 2026

- **UI/UX Redesign:** Led a comprehensive UI/UX redesign of a React/TypeScript marketplace platform, transforming the booking flow to increase user completion rates by >88% and improve mobile responsiveness across devices.
- **Code Quality:** Adhered to live product code quality through strict TypeScript standards and optimized architectural patterns, keeping bundle sizes minimal.
- **Design System:** Created a custom application design system in Figma with reusable components, using Variables and component-based prototyping to cut design-to-development timeline from days to hours.
- **Impact:** Scaled the user-facing application to 2,000+ monthly active users and business tooling for over 500 partnered local businesses across Puerto Rico.

Operations COOP / Intern | EcoEléctrica Natural Gas Power Plant (PR)

Jan 2025 – May 2025

- **Simulator Development:** Co-developed a high-fidelity DCS simulator and led UI/UX architecture for its interactive interfaces, reducing new hire onboarding time by ~74% and improving operational readiness scores.
- **Automation:** Engineered custom automation scripts that cut 1-hour manual processes down to 2 minutes, compressing month-long project timelines to under one week and delivering a 92% efficiency gain overall.
- **Workflow Optimization:** Optimized Finance and Compliance workflows using Python, Power Automate, and VBA macros, reducing manual effort for valve inspections by ~70%, improving monthly reporting efficiency by twofold, and eliminating redundant data entries that initially caused severe backlogging.

UNIVERSITY LEADERSHIP & PROJECTS

President | ACM-W (Association for Computing Machinery-Women)

July 2025 – Jun 2026

- **Streamlined board operations** and organized 10+ events, **increasing student engagement by 50%** through improved event planning and member outreach initiatives.

Front End Developer & Business Lead | Loxodon LP Rocket Engine UPRM

Jan 2024 – Oct 2025

- Engineered **real-time TypeScript telemetry dashboard**, processing 22 sensor readings per second, implementing Role Based Access Control to serve multiple engineers, for ignition-secure DAQ operations.

Technical Skills (more listed in experiences)

- **Design & Prototyping:** UI/UX, FlutterFlow, Typography & Color Theory.
- **Programming Languages:** JavaScript, Python, Java, C++, Swift (UI), SQL, HTML5, CSS3, TypeScript.
- **Frameworks & Libraries:** React.js, Playwright, i18n (Internationalization), Bootstrap.
- **Databases & Backend:** Firebase (Auth, Firestore), DBEaver, REST APIs.
- **Tools & DevOps:** Docker, Git (GitBash, TortoiseGit), GitLab, BitBucket, Artifactory, Sublime Text, Xcode.
- **Management & Operations:** Jira, Confluence, Power Automate, Change Management, Technical Representative.