

Luis J. Rodriguez Espinal

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WORK EXPERIENCE

Banco Popular

2022 – Present

Software Engineer – AI & Automation

- Engineered and deployed automated business applications using Automation Anywhere, Python, and APIs, eliminating the manual effort of one FTE.
- Developed custom AI-assisted tools using Microsoft Copilot and intelligent workflows that enhanced productivity and decision-making.
- Designed and integrated automation pipelines connecting Power Apps and Power Automate with backend systems for improved scalability.
- Partnered with business stakeholders to identify automation opportunities and deliver end-to-end software solutions aligned with enterprise goals.

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Business Systems Liaison

- Developed and optimized SQL queries and scripts to feed the “CACS X” core banking modernization project, ensuring data integrity during migration.
- Built and tested scripts for new applications and production rollouts, ensuring smooth system integrations.
- Collaborated across departments to translate business needs into technical requirements and functional designs.
- Contributed to high-impact initiatives such as the SMS system for delinquency management and the CACS X Core Team, implementing modernized digital strategies.

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Quality Assurance Representative

- Conducted software testing, QA validation, and process audits to ensure reliability and compliance of internal systems.
- Created and maintained over 10 Power Apps to digitize workflows, improving automation efficiency by 20%.
- Designed scalable, testable features and optimized internal inspection tools to enhance performance.

EDUCATION

Universidad Interamericana de Puerto Rico

2024

B.S.c in Computer Science

Universidad Ana G. Mendez

Current

MBA in Finance

TECHNICAL SKILLS

- Languages & Frameworks: Python (Flask, Pandas), C#, C++, SQL, HTML, CSS, Java, JavaScript.
- AI & Automation: Azure OpenAI, Google Gemini API, RAG architectures, Microsoft Copilot Studio, Power Automate (Custom Connectors), AI Agents.
- Development Tools: Git/GitHub, Docker, Postman, VS Code, Azure DevOps.
- Professional Skills: Agile/Scrum Methodology, Stakeholder management, Technical Requirements Translation, Financial Risk Analysis.