LUIS MARQUEZ LOPEZ

North Las Vegas, NV

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PROFESSIONAL SUMMARY

Aspiring software engineer and U.S. Army veteran pursuing a Bachelor's in Computer Science with hands-on experience in software development, automation, and system optimization. Currently applying and expanding skills as a Software Development Intern at NV Energy, using SQL and the AssurX platform to develop workflow-automation forms in a dev/prod environment. Passionate about building scalable, efficient applications and collaborating in team environments to solve complex technical challenges.

EDUCATION

University of Nevada, Las Vegas   **Jan. 2024 - Present**
Bachelor of Science in Computer Science   GPA: 3.9
Relevant Coursework:

Data Structures | Computer Organization | Discrete Mathematics | Assembly Programming

College of Southern Nevada (Transfer)   **Aug. 2021 - Jul. 2022**
Associate of Applied Science in Electrical Maintenance   GPA 3.3

TECHNICAL SKILLS

Languages: C++, SQL, Python, HTML, CSS
Operating Systems: Windows, macOS
Tools: Visual Studio, AssurX, CLion, Wix Studio, Git, Excel

PROJECTS

Portfolio Website | HTML, CSS, JavaScript | lualmarquez.netlify.app
- Developed and deployed a portfolio website to showcase projects and skills in web development.
- Designed and implemented interactive features that help user experience through clean navigation and button features.
- Managed the end-to-end deployment process by configuring and deploying the site via Netlify, ensuring continuous availability and accessibility.

Pokemon Chess Game | C++
- Engineered a Pokemon-themed chess game from scratch, applying Object-Oriented Programming principles to design a class hierarchy where each Pokemon type inherits from a base PokemonPiece class with its own unique move set.
- Implemented a robust game engine featuring complex move validation algorithms for horizontal, vertical, and diagonal movements, checking for blocked paths and valid captures within a terminal-based interface.
- Developed the complete game logic utilizing a 2D array to represent the board and manage game state, successfully handling player turns, piece elimination, and win/loss conditions.

Ultimate Excel Budget | Excel
- Developed a comprehensive Excel-based personal budgeting tool to manage and track monthly expenses and savings effectively.
- Designed user-friendly spreadsheets with advanced formulas and functions, including pivot tables and charts, to provide real-time financial insights.

PROFESSIONAL EXPERIENCE

Software Developer Intern
NV Energy | Las Vegas, NV   **Jun. 2025 - Present**
- Developed and launched multiple workflow-automation forms within the AssurX platform; notably engineered a "CIP Access Change Request - Manual" form from dev environment to production by scripting its final configuration migration.
- Authored complex SQL queries to retrieve and repurpose user-submitted data, implementing a dynamic filtering system that allows managers to efficiently track access requests by status (e.g., revoking, open, complete).
- Contributed to the design and development of a new asset management form to track the assignment and usage of Transient Cyber Assets (TCAs), addressing a key operational need for the cybersecurity team.

Construction Management Intern   **Jul. 2024 - May 2025**
Nevada Small Business Development Center | Las Vegas, NV
- Supported Neveada's small construction businesses by guiding them through the licensing process and assisting with workshops and other key industry projects.
- Created a fully functional website to enhance engagement, allowing appointment scheduling, access to networking events, and other essential resources for users. | https://constructioninfo0.wixstudio.com/constructed

Heating, Ventilation, and Air Conditioning Mechanic, United States Army, Wahiawa, HI   **Jan. 2021 - Dec. 2023**
- Systematically diagnosed and resolved complex mechanical and electrical malfunctions in large-scale HVAC systems, earning recognition for efficiency and expertise in troubleshooting.
- Proactively identified and implemented process improvements in fabrication and maintenance, significantly increasing the operational longevity and reliability of critical equipment.
- Conducted rigorous quality control inspections to develop and manage preventative maintenance schedules, ensuring 100% service quality and system uptime for all service members.