

JULIÁN ROJAS SOTO

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EDUCATION

Instituto Tecnológico de Estudios Superiores Monterrey
Bachelor's Degree in Computer Technologies Engineering (Currently Pursuing)
Relevant Courses:

August 2021 - June 2026
GPA 85.15/100

- Object-Oriented Programming
- Data Structures and Fundamental Algorithms
- Internet of Things Implementation

SKILLS

- **Programming Languages:** Python, JavaScript, HTML, CSS, C#, C++, R, Matlab,
- **Frameworks:** Flask, Express, React, .NET,
- **Databases:** MySQL, Microsoft SQL Server
- **Tools:** Node.js, GitHub, Google Cloud, Postman, Unity, Excel
- **Languages:** English level C2 Advanced, Spanish Native

NOTABLE PROJECTS

Multi-Agent Warehouse Simulation

August 2024 - September 2024

- **Developed an autonomous warehouse** simulation using Python and Unity, integrating Q-Learning to train robots for optimal task handling and collision avoidance.
- **Designed an intelligent Q-Learning policy** enabling robots to dynamically adjust their paths, optimize task allocation, and minimize manual routing efforts.
- **Enhanced the system's flexibility with real-time data analysis and 2D/3D visualizations**, allowing robots to continuously learn and improve task execution autonomously.

"Web Application for Streamlining Faulty Device Diagnostics Reporting"

February 2024 – May 2024

- Developed, in collaboration with a team, a web application using React JS and Express to streamline the process of submitting and modifying reports on faulty device diagnostics performed by technicians. Designed an intuitive admin panel for real-time monitoring and management of report updates, utilizing SQL Server on Firebase cloud for efficient data handling and reporting. Integrated various technologies such as React JS, Express, and third-party APIs to ensure seamless communication between technicians and the management team, improving the efficiency and accuracy of maintenance reporting.

Distributed Store System using Erlang

February 2024 – May 2024

- Developed a distributed store management system using Erlang, consisting of three nodes for managing store operations, partners, and products. The system handled product registration, inventory management, and partner subscriptions. Each node communicated efficiently to process orders, update product quantities, and manage store activities in real-time, ensuring high availability and fault tolerance.

LEADERSHIP AND ACTIVITIES

Leadership in Multigenerational Teams

June 2024

- Led efforts to improve collaboration and communication across diverse age groups, promoting teamwork and conflict resolution in a multigenerational setting.

Regional Chess Tournament Participation

February 2024 - Present

- Competed in regional chess tournaments, enhancing strategic thinking, decision-making, and problem-solving skills.