

AMHED CORTES

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EDUCATION

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

August 2022 - June 2026
GPA 88.4/100

- Object-Oriented Programming
- Data Structures and Fundamental Algorithms Programming
- Internet of Things Implementation
- Device interconnection
- Software Construction and Decision Making

SKILLS

- **Programming Languages:** Python, JavaScript, HTML, C#, C++, R, Matlab, Arduino
- **Frameworks:** React, .NET
- **Databases:** MySQL
- **Tools:** Node.js, GitHub, Unity, Oracle Apex, Excel, Packet Tracer
- **Languages:** English level B1 Intermediate, Spanish Native

NOTABLE PROJECTS

Multi-Agent TrainRoute Simulation

August 2024 - September 2024

- **Developed an autonomous warehouse simulation** using AgentPy (Python) and Unity, integrating Q-Learning to train robots for optimal task handling and collision avoidance.
- **Designed an intelligent Q-Learning policy** to allow robots to dynamically adjust their paths, optimize task allocation, and reduce manual routing efforts.
- **Enhanced the system's flexibility with real-time data analysis with 2D and 3D visualizations**, enabling the robots to learn continuously and improve task execution without human intervention.

Gamified Learning Platform for Employee Training

February 2024 – May 2024

- **Developed, in collaboration with a team, a cutting-edge web application using React JS and Express** to encourage employees to complete programming courses through gamification where course progress provided advantages in a Unity-based clicker game.
- **Designed an interactive admin panel** for precise monitoring of user progress, leveraging SQL Server on Google Cloud for robust data management and reporting.
- **Integrated various technologies such as React JS, Express, and Unity** to create an engaging and motivating user experience, improving the effectiveness of employee training programs.

OTHER INFORMATION

Ikusi Velatia Recognition

June 2024

- Received recognition in a university project for having the best network design for a medium-sized company using a three-layer network model in Cisco Packet Tracer.