Francisco Mustico

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EDUCATION

Lawrence Technological University — Expected Graduation: May 2027
Bachelor of Science in Computer Science - Software Engineering — *Southfield, MI*
- GPA: 4.0 / 4.0
- Relevant coursework: OOP, Mathematics and data science, Software Construction, Implementation of Computational Methods, Device Interconnection, Algorithms and Data Structures. *Link to courses*

Varsity Golf Player — Southfield, MI
Lawrence Technological University Athletics — *Jan 2024 - Present*

EXPERIENCE

STEM Ambassador — Jan. 2024 – Present
Marburger STEM Center, Lawrence Technological University — *Southfield, MI*
- Executed a comprehensive strategic STEM outreach initiative aimed at enhancing community engagement.
- Successfully increased community participation by 20% within the designated time frame.
- Improved community engagement and collaboration as evidenced by consistent positive feedback by the community and an increase in student interest by 35% towards the program.

PROJECTS

Personal Portfolio Website — Oct. 2024
- Designed and developed a fully responsive portfolio website using **HTML**, **CSS**, and **JavaScript** to showcase personal projects, skills, and experience.
- Implemented secure **HTTPS protocol** to protect user data and improve **SEO** performance.
- Utilized **GitHub** for **version control**, enabling continuous updates and improvements based on user feedback.

Arm-Car AI — Dec. 2023
- Developed a robotic arm utilizing **Arduino** and servo motors to achieve precise manipulation in various tasks.
- Engineered an **autonomous cart** equipped with a camera and **AI for object detection** and manipulation, employing YOLOv4 for robust obstacle detection and navigation.
- Employed **HTML, Javascript and CSS** to allow user interaction with the robot.

MathStudentHelp — Jan. 2023
- Created **Python-based** educational software for PAA test prep, optimizing learning experiences.
- Utilized CSV data storage, Pandas, and **adaptive algorithms** to enhance learning, providing over 150 questions.
- Achieved **enhanced adaptive learning** capabilities, tailoring content to individual needs and progress while enabling the program to recognize and address user errors for continuous improvement.

Online Web Store Simulation — Dec. 2022
- Created a simulation program with **modular CPP/H** files, utilizing classes for comprehensive functionality.
- Utilized **CSV files as a database** solution to store and manage product information within the simulation.
- Empowered users to engage in a lifelike virtual shopping experience akin to Amazon.

EXTRACURRICULAR LEADERSHIP

Vice President, Model United Nations (MUN) — Jan. 2023 – Jan. 2024
Instituto Tecnológico y de Estudios Superiores de Monterrey — *Guadalajara, Mexico*
- Managed multiple teams, including finance, P.R. , social labor, and logistics, ensuring smooth event execution.
- Organized over 300 students, utilizing technologies like Microsoft Office and zoom for planning & coordination.
- Coordinated with local & major companies to secure catering & other materials, ensuring logistical needs were met.

TECHNICAL SKILLS

Languages: Python, C++, Java, JavaScript, HTML/CSS, R, SQL
Developer Tools: Github, VS Code, Visual Studio, PyCharm
Libraries: Pandas, NumPy, Matplotlib
Human Languages: English, Spanish, French, Italian