

Francisco Mustico

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PROFESSIONAL SUMMARY

Hardworking and highly motivated software engineering student at Lawrence Technological University with a 4.0 GPA. Proficient in Python, Java, and C++, with experience in AI-powered robotics, educational software, and simulations. Strong in problem-solving and multitasking, excelling in fast-paced environments. Known for clear communication and simplifying complex technical concepts. Seeking internships to apply technical expertise and collaborative mindset. As a varsity athlete, I bring discipline and a competitive edge to all my work.

EDUCATION

Lawrence Technological University

Expected Graduation: May 2027

Bachelor of Science in Computer Science - Software Engineering

Southfield, MI

- GPA: 4.0 / 4.0
- Computational biology analysis, OOP, Mathematics and data science for decision making, Software Construction and Decision Making, 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

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.

Formula1Simulation

Oct. 2022

- Developed a MATLAB program to compute F1 car trajectories, factoring parameters like curve, velocity & angle.
- Incorporated visualization features to offer users a clear depiction of car's trajectory, facilitating informed analysis.
- Enhanced understanding of vehicle dynamics and safety through detailed trajectory analysis, identifying potential crash points and providing actionable insights.

TECHNICAL SKILLS

Languages: Python, C++, Java, JavaScript, HTML/CSS, R, SQL

Developer Tools: Github, VS Code, Visual Studio, PyCharm

Libraries: Pandas, NumPy, Matplotlib