

Francisco Mustico

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EDUCATION

Lawrence Technological University

Bachelor of Science in Computer Science - Software Engineering

Expected Graduation: May 2027

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

Lawrence Technological University Athletics

Jan 2024 - Present

Southfield, MI

PROJECTS

JavaMart

Jan. 2025

- Developed **intuitive Java GUI** displaying product images, prices, descriptions, and managing customer records.
- Engineered a **dynamic discount system** for bulk orders with **automated tax calculations**, secure payment scheduling, and **invoice generation**, reducing manual errors by **100%**.
- Designed a **custom TXT file I/O system** for products.txt and customers with **real-time data validation** and **bidirectional synchronization** between GUI/console modes, **ensuring 100% data accuracy through consistency checks**.

Personal Portfolio Website

Oct. 2024

- Launched a fully responsive portfolio website using **HTML**, **CSS**, and **JavaScript** to showcase personal projects and skills.
- 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.

AI ArmCar

Dec. 2023

- Constructed 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.

MathAid

Jan. 2023

- Created **Python-based** educational software for SAT & 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.

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

EXPERIENCE

Computer Science Tutor

March. 2025 – Present

Zaven Margosian Student Success Center

Southfield, MI

- Provide one-on-one tutoring in **Python**, **C++**, **Java**, **SQL**, **Data Structures**, **Discrete Math**, **CS1**, **CS2**, **SWE1**.
- Help students prepare for exams and assignments by creating study materials and offering targeted guidance.
- Simplify complex concepts and foster independent problem-solving through personalized explanations and support.

Library Student Assistant

Aug. 2024 – Present

Lawrence Technological University

Southfield, MI

- Maintain patron accounts and ensure **data/inventory accuracy** in library databases.
- Troubleshoot software issues on public-access computers and manage printer/copier operations.
- Take **initiative** to collaborate with librarians on special projects, including process improvements, training new personnel, and **resource management optimization**, resulting in **enhanced operational efficiency**.