

# 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

### Library Student Assistant

*Lawrence Technological University*

Aug. 2024 – Present

*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**.

### STEM Ambassador

*Marburger STEM Center, Lawrence Technological University*

Jan. 2024 - May 2024

*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.