

Om Patel

High School Student | Robotics | Machine Learning |
Software Development

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OBJECTIVE

Driven and detail-oriented high school student with hands-on experience in game development, robotics, and machine learning. Seeking to leverage technical skills, leadership experience, and a passion for problem-solving to contribute to innovative projects and collaborate in dynamic, fast-paced environments. Eager to grow and apply my expertise in STEM fields while making a meaningful impact.

EXPERIENCE

Founder & CEO 2024 - Present
Thrive Houston, TX

Company Description

- Creating a machine learning model to predict blood sugar levels using Python, Pandas, NumPy, and Tensor Flow.
- Developing a full-stack application for user input and real-time data visualization.
- Currently working on integrating a custom Continuous Glucose Monitoring (CGM) system to improve model accuracy and personalize training data.
- Collaborating with experts in the industry as well as target audience to improve the product

President 2024 - Present
Elkins Game Jam Club Missouri City, TX

Company Description

- Led a team of 40+ members, organizing workshops and collaborative game development projects.
- Taught programming, 3D modeling, and shader integration to club members, fostering learning and growth.
- Managed logistics for game development competitions and school/community volunteer initiatives.

Data Science & Analytics Team Lead 2024 - Present
Technology Student Association Missouri City, TX

Company Description

- Led a research team focused on analyzing the impact of the housing market on the United States economy, utilizing Python, Pandas, NumPy, and various statistical tools to extract insights from complex datasets.
- Applied data analysis techniques to transform raw data into meaningful statistics and visualizations, including intricate graphs, to present findings in a clear and impactful manner.
- Collaborated with team members to ensure the integrity of the data and the accuracy of the analysis.
- Currently a semifinalist in the Gulf Coast region of an ongoing competition, with the potential to advance to state-level competition.

Robotics Team Lead 2024 - Present
Elkins Robotics Missouri City, TX

Company Description

- Led the design, building, and programming of robots for regional competitions.
- Collaborated with teammates to integrate mechanical components for high-performance outcomes under time pressure.
- Developed autonomous and manual control systems for competition robots.

STRENGTHS

☆ Problem Solving
Successfully debugged and redesigned robots to make them 40% more efficient in energy costs, motor usage, and mobility

🚩 Team Leadership
Led a team of 10+ programmers, resulting in the timely release of video games for competitions.

☆ Adaptability
Learned new disciplines that deal with computers such as machine learning, app development, game development, and robotics quickly

💎 Creativity
Developed innovative solutions in game development, robotics, and machine learning by thinking outside the box and applying creative approaches to complex problems

LANGUAGES

English	Native	●●●●●
Gujarati	Native	●●●●●
Spanish	Intermediate	●●●●●

SKILLS

C++ · Unity · Shader Programming ·
Python · Data Science ·
Team Leadership · C# · Analytics ·
Machine Learning · Robotics ·
Web Technologies · Java · Git ·
Communication · Flexibility ·
Dedication