

# Muhammad Hamza

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## EDUCATION

### SUNY Farmingdale State College

*Bachelor of Science in Computer Science, Minor in Mathematics*

GPA: 3.86

Farmingdale, NY

Aug. 2022 – May 2026

## EXPERIENCE

### Undergraduate Research Intern

*Stony Brook University*

May 2025 – Present

*Stony Brook, NY*

- Conducting research in robotics and machine learning, focusing on intelligent systems that interpret complex tasks.
- Designing experiments to test LLMs' performance in robotic planning scenarios, incorporating planning techniques like PDDL.
- Applying A\* and Dijkstra's algorithms to feed the machine with various task-based scenarios, enabling autonomous decision-making and pathfinding.

### Math Tutor

*Farmingdale State College*

Feb 2025 – Present

*Farmingdale, NY*

- Tutored over 25 students one-on-one in Calculus, Algebra, and Linear Algebra.
- Created personalized lesson plans to meet individual learning goals and improve subject comprehension.
- Received positive feedback from students and faculty on communication clarity and academic impact.

## PROJECTS

### FitTrack | *Java, JavaFX, Azure MySQL, Maven*

August 2024 – December 2024

- Developed a comprehensive fitness tracking application that allows users to set running goals, track progress, and access running analytics and personalized fitness recommendations.
- Led a team of five student programmers using Java, JavaFX, and Azure MySQL Database, with Maven for dependency management, to create a user-friendly and data-driven experience.
- Deployed a responsive UI using JavaFX and managed dependencies with Maven to ensure scalability.

### Farmingdale Innovation Challenge 2024 |

Dec 2024

- Collaborated with a team to develop an alternative battery for electric vehicles, addressing global sustainability and efficiency challenges.
- Focused on brainstorming innovative solutions and presenting the final product as part of a group competition.

### User Management Application | *Java, Spring Boot, SQL, PDF Libraries*

Aug 2024 – Dec 2024

- Developed a full-stack application for managing user data with features including import/export functionality, add/remove users, and PDF generation for reports.
- Utilized Java, SQL, and Spring Boot for backend operations, integrating third-party libraries for PDF creation.

## TECHNICAL SKILLS

**Languages:** Java, SQL, C++, Python

**Tools:** IntelliJ, GitHub

**Interests:** Application Development, Code Optimization, Algorithm Analysis, Natural Language Processing, Machine Learning, Robotics