

# Sami Saifudin

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## EDUCATION

### George Mason University - Honors College

Fairfax, VA

*Bachelor of Science in Computer Science*

*Expected Graduation: December 2025*

- **GPA:** (3.91/4.0)
- **Relevant Coursework:** Data Structures, Database Concepts, Object-Oriented Programming, Software Engineering, Operating Systems, Low-Level Programming, Multivariable Calculus
- **Honors and Awards:** Deans List: All Semesters

## EXPERIENCE

### Software Test Engineer Intern

May 2024 – August 2024

*WillowTree*

*Charlottesville, VA*

- Collaborated with software engineers, data scientists, and test engineers to build classification features for a conversational AI chatbot for a financial services company.
- Developed Python scripts to assess the accuracy, relevancy, and categorization of chatbot responses under 50 created scenarios.
- Designed a Python based backend using Flask for a dashboard that streamlines the content management of a local nonprofit's WordPress website.

### Robotic Process Automation Developer Intern

June 2023 – August 2023

*Heartland Consulting*

*Remote*

- Implemented over 10 automation solutions using UiPath Studio to streamline invoice management for client vendors, incorporating screen scraping to enhance data retrieval from vendor websites.
- Orchestrated the organization of the company's SharePoint platform by updating task lists across various sites.

### Undergraduate Teaching Assistant

June 2023 – Present

*George Mason University*

*Fairfax, VA*

- Effectively assists roughly 400 students per week by providing comprehensive guidance on Python, Java, and C programming concepts.
- Communicate and collaborate with instructors while holding weekly laboratory sessions.

## PROJECTS

### WALL-E | Python, OpenCV, Arduino, Raspberry Pi (3x Hackathon Winner)

October 2024

- Engineered an automated system to clean physical waste and optimize digital environments.
- Created a file organization tool with Python and OpenAI, focusing on efficiently organizing files and cleaning out old, duplicate, and unnecessary ones to optimize storage.
- Built a robot with Arduino, Raspberry Pi, motors, and a camera for real-time waste detection and collection.

### Basket Nodes | JavaScript, React, MongoDB, ExpressJS

July 2024 – August 2024

- Constructed a web application that allows users to keep track of their individual basketball game statistics, enabling them to record and analyze their performance metrics efficiently.
- Leveraged a MongoDB database with Mongoose schemas, facilitating real-time game data storage and retrieval for game stats.
- Integrated user authentication with JSON Web Tokens (JWT), ensuring user data privacy and access control.

### Environmental Safety Navigation | Java, OpenCV (Best AI-Powered Hack.)

October 2023

- Developed a vSLAM like AI system to assist individuals with visual impairments navigate diverse environments.
- System blends artificial intelligence based on visual inputs with haptic feedback, delivering instant recognition and monitoring of objects in real time, eliminating extraneous information.
- Implemented a neural network architecture to deliver precise haptic feedback indicating the direction and proximity of surrounding objects, enhancing user safety.

## SKILLS

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

**Frameworks:** React, Node.js, Express.js, JUnit, UiPath Automation

**Developer Tools:** Git, Unix/Linux, Docker, MongoDB, Postman, VS Code, PyCharm, IntelliJ

**Libraries:** pandas, NumPy, Matplotlib, OpenCV