# Sami Saifudin

XXX-XXX-XXXX | sami.h.saifudin@gmail.com | linkedin.com/in/samisaifudin | github.com/SamiSaifudin

## 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 a cross-functional team to build classification features for a conversational AI chatbot for a financial services company, helping lead to a 5x more usage of chatbot compared to site search.
- 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** Jan 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