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); Deans List: All Semesters
- **Relevant Coursework**: Data Structures & Algorithms, Databases, Object-Oriented Programming, Software Engineering, Operating Systems

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, resulting to a 5x more usage of chatbot compared to site search.
- Developed Python scripts to assess the accuracy, relevancy, and categorization of chatbot responses across 50 custom-designed 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*
- Mentored 500+ students by providing comprehensive guidance in Python, Java, and C programming languages.
- Hosted 10+ targeted review sessions with over 100+ student attendees with a focus on complex class topics.

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 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 to track basketball game statistics, providing functionality for recording and analyzing individual performance metrics.
- 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