

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:** (3.93/4.0); Deans List: All Semesters
- **Relevant Coursework:** Data Structures & Algorithms, Databases, Object-Oriented Programming, Software Engineering, Operating Systems

EXPERIENCE

Software Engineer & Partner

October 2024 - January 2025

Purgeon (Startup)

Remote

- Creating an AI powered software used to recover wasted hard-disk space and improve overall system performance.

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 10+ automation solutions using UiPath Studio to streamline invoice management for client vendors.
- 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 two automated systems: one for cleaning physical waste and another for decluttering digital spaces.
- Created a file organization tool with Python and OpenAI, focusing on analyzing, renaming, and categorizing files.
- Built a robot with Arduino and Raspberry Pi, utilizing OpenCV 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 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