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); Dean's List for all semesters
- **Relevant Coursework**: Data Structures & Algorithms, Databases, Object-Oriented Programming, Software Engineering, Operating Systems, Data Mining

SKILLS

Languages: Java, Python, C, JavaScript, HTML/CSS, R, SQL
Frameworks & Libraries: Flask, React, Node.js, Express.js, Pandas, NumPy, Matplotlib, Scikit-learn, PyTorch, Rasa
Developer Tools: Git, Unix/Linux, Docker, MongoDB, Postman, VS Code, PyCharm, IntelliJ, JUnit, UiPath

WORK EXPERIENCE

Software Engineer Intern   June 2025 – August 2025
Bank of America   *New York, NY*
- Engineered an AI-powered chatbot using Rasa for natural language understanding on risk report queries, achieving **98%** intent recognition accuracy across **14** created intents.
- Developed a Flask backend mapped to chatbot intents, retrieving and aggregating data from risk reports.
- Collaborated with interns to build an application using the SharePoint REST API to scan files within a SharePoint directory for data privacy and retention issues.

Software Test Engineer Intern   May 2024 – August 2024
WillowTree   *Charlottesville, VA*
- Integrated classification features for a conversational AI chatbot for a financial services company, resulting in **5x** higher usage of chatbot compared to site search.
- Developed Python scripts to evaluate the accuracy, relevancy, and categorization of chatbot responses across **50** custom-designed scenarios.
- Designed a Flask backend for a dashboard that simplifies content management of a local nonprofit's WordPress website, reducing content update time by **60%**.

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 – May 2025
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**)
- Created a file organization tool integrated with OpenAI that analyzed, renamed, and categorized files, achieving a **95%** classification accuracy.
- Built a robot with Arduino and Raspberry Pi, utilizing OpenCV for real-time waste detection and collection.

Basket Nodes | *JavaScript, React, MongoDB, ExpressJS*
- Constructed a MERN stack app to track basketball stats and analyze player performance.
- 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**)
- Architected a vSLAM like AI system to assist individuals with visual impairments navigate diverse environments.
- Utilized a convolutional neural network architecture to deliver precise haptic feedback indicating the direction and proximity of surrounding objects, achieving a **92%** obstacle detection accuracy.

LEADERSHIP

Treasurer   January 2024 – Current
ColorStack @ GMU   *Fairfax, VA*
- Secured and managed **$2,000+** budget for ColorStack chapter with **80+** members, funding **5+** successful events and ensuring sustainable financial operations.