

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, Secure Programming and Systems

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 with **Rasa** for risk report queries, defining **14** intents and key entities and generating training data, achieving **98%** intent recognition accuracy.
- Developed **Flask** API endpoints mapped to chatbot intents, retrieving and aggregating data from risk reports.
- Collaborated with interns to build a **SharePoint REST API** application capable of scanning **80+** files for data privacy and retention issues, reducing manual review effort.

Software Test Engineer Intern

May 2024 – August 2024

WillowTree

Charlottesville, VA

- Integrated category-based text classification and retrieval for a financial services chatbot, enabling accurate query routing and driving **5x** higher usage compared to site search.
- Developed **Python** scripts to evaluate the accuracy, relevancy, and categorization of chatbot responses across **50+** custom-designed scenarios, enabling scalable testing and reducing reliance on ad-hoc manual QA.
- 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

January 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 the **OpenAI API** 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.