

# Sami Saifudin

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## EDUCATION

### George Mason University

Fairfax, VA

*Bachelor of Science in Computer Science*

*Expected Graduation: December 2025*

- **Relevant Coursework:** Data Structures, Introduction to Low-Level Programming, Software Engineering, Object-Oriented Programming, Systems Programming, Multivariable Calculus, Discrete Math
- **Honors and Awards:** Honors College, Deans List: All Semesters

## EXPERIENCE

### Undergraduate Teaching Assistant

June 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, troubleshooting coding challenges, and clarifying course materials.
- Respond to and provide resolution to student inquiries through Piazza.
- Communicate and collaborate with instructors while holding weekly laboratory sessions.
- Conduct review sessions for exams on a different range of topics involving Python, Java, and C programming including data structures, file manipulation, unit testing, and debugging.

### Software Test Engineer Intern

May 2024 – August 2024

*WillowTree*

*Charlottesville, VA*

- Collaborated with software engineers, data scientists, and test engineers to build new features for a conversational AI chatbot for a financial services company.
- Developed Python scripts to assess the accuracy and relevancy of responses under different scenarios and the app's classification of the given prompt.
- Competed in a hackathon alongside fellow interns to develop the backend of a dashboard that simplifies the updating process of a local nonprofit's WordPress website.

### Robotic Process Automation Developer Intern

June 2023 – August 2023

*Heartland Consulting*

*Remote*

- Developed automation solutions using UiPath Studio to streamline invoice management for Navy vendors, incorporating screen scraping to enhance data retrieval from vendor websites.
- Orchestrated the organization and enhancement of the company's SharePoint platform by updating task lists across various sites.

## PROJECTS

### Basket Nodes | *JavaScript, React, MongoDB, ExpressJS*

July 2024 – August 2024

- Developed 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.
- Designed and integrated a MongoDB database with Mongoose schemas, facilitating real-time game data storage and retrieval for game stats.
- Implemented user authentication with JSON Web Tokens (JWT), ensuring user data privacy and access control.

### Environmental Safety Navigation | *Java, OpenCV, vSLAM*

October 2023

- Designed a vSLAM like AI system meant to assist individuals with visual impairments in navigating diverse environments that won 1st place at PatriotHacks for Best AI-Powered Hack.
- System blends artificial intelligence based on visual inputs with haptic feedback, delivering instant recognition and monitoring of objects in real time, effectively eliminating extraneous information.
- Using Java, developed 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

**Frameworks:** React, Node.js, Express.js, JUnit, UiPath Automation

**Developer Tools:** Git, Unix/Linux, Docker, MongoDB, Postman, Google Cloud Platform, VS Code, PyCharm, IntelliJ

**Libraries:** pandas, NumPy, Matplotlib, OpenCV