Sami Saifudin

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EDUCATION

George Mason University - GPA: **3.91**   *Fairfax, VA*
Bachelor of Science, Computer Science   *Expected Graduation December 2025*
- Relevant Coursework: Data Structures & Algorithms, Introduction to Low-Level Programming, Software Engineering, Object-Oriented Programming, Systems Programming, Multivariable Calculus, Discrete Math
- Awards: Dean's List all semesters, Honors College

SKILLS

- **Programming Languages:** Python, Java, C, HTML/CSS, JavaScript
- **Technologies/Frameworks:** ReactJS, NodeJS, ExpressJS, MongoDB, Git, Unix, Docker, Postman, Gradle, UiPath Automation, OpenCV, JUnit, Yolo V5, vSLAM, Google Suite, Mac OS, Microsoft Teams, SharePoint

WORK EXPERIENCE

WillowTree   *Charlottesville, VA*
Software Test Engineering Intern   *May 2024-August 2024*
- 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.

George Mason University   *Fairfax, VA*
Undergraduate Teaching Assistant   *January 2023 – Present*
- 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.

Heartland Consulting   *McLean, VA*
Robotic Process Automation Developer Intern   *June 2023 – August 2023*
- 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, ReactJS, 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.