Sokhna Seye

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ABOUT

Recent master's in computer science graduate with a strong foundation in machine learning, robotics, and artificial intelligence. Seeking an entry-level Software Engineer position to apply my knowledge of neural networks, machine learning, and deep learning. Eager to grow my skills, find innovative solutions, and contribute to cutting-edge projects.

EDUCATION

Georgia Institute of Technology, Atlanta, Georgia
Master of Science in Computer Science   GPA: 4.00/4.00

Georgia Institute of Technology, Atlanta, Georgia
Bachelor of Science in Computer Science   GPA: 3.68/4.00

Relevant Coursework: Machine Learning, Deep Learning, Intro to Artificial Intelligence, Prototyping Intelligent Devices, Human Robot Interaction, Computing and Society, Interactive Robot Learning, Design and Analysis of Algorithms.

RELEVANT SKILLS

Programming Languages and Technologies: Python, Java, C++, C, HTML, CSS, JavaScript, Assembly, Git, Docker, Linux
AI Frameworks: PyTorch, TensorFlow, Pandas, NumPy, Sci-kit Learn
Database Technology: SQL, MySQL
Languages: English (Fluent), French (Limited Working Proficiency)

PROJECTS

Human-Robot Collaboration with Probabilistic Motion Primitives, Atlanta, Georgia   Jan 2025 - May 2025
- Developed a game agent able to perform a joint carrying task with a human in simulation using probabilistic motion primitives in a group of 3.
- Trained the agent using 105 demonstrations of two humans completing the task and was able to successfully replace one of the humans with the agent with robustness greater than that given by the behavior cloning baseline.

OptiShield: Multiagent Artificial Bee Colony with StringNet, Atlanta, Georgia   Jan 2025 - May 2025
- Created an algorithm to combine the Multiagent Artificial Bee Colony Algorithm with StringNet Herding in a simulated disaster relief setting, allowing a team of robots to simultaneously guide victims back to a safe zone and protect sensitive areas from tampering from risk-averse adversarial agents.

Door Classification with Machine Learning, Atlanta, Georgia   Jan 2024 - May 2024
- Worked with a group of 4 to develop 3 Machine Learning Algorithms to identify how to open doors based on pictures, using methods such as preprocessing, convolutional neural networks, k-nearest neighbors, and clustering to get 89.7% accuracy.

Human Trajectory Prediction with Deep Learning, Atlanta, Georgia   Jan 2023 - May 2024
- Optimized a Deep Learning Neural Network with a team of 10 to allow a humanoid robot to predict the trajectory of a crowd and navigate towards a goal safely with The Laboratory for Intelligent Decision and Autonomous Robots (LIDAR) at Georgia Tech.
- Tested multiple weighting algorithms to give pedestrians priority based on distance, angle, velocity, etc.
- Compared, written and tested multiple ML algorithms to group pedestrians into descriptive zonotopes to improve the efficiency of the network.

Georgia Tech Black Student Organizations' Hackathon, Atlanta, Georgia   Mar 2023
- Created a dynamic website using HTML, CSS, and JavaScript for enhanced club communication and event planning with a team of 4 in 6 hours, resulting in our team winning first place.

RoboJackets, Atlanta, Georgia   Sep 2021 - Sep 2022
- Collaborated with a team of 40 software, mechanical and electrical engineers as a software engineer in projects including building and programming autonomous soccer-playing robots for RoboCup Bangkok.
- Created and implemented soccer plays in python using agile methodology, reviewed teammates implementation using Git, and improved robot locomotion using ROS and C.

EXPERIENCE

***Peer Tutor,* Knack Technologies,** Atlanta, Georgia   Aug 2022 - Dec 2025
- Tutored peers in topics such as Calculus, Physics, Computer Organization and Programming, Data Structures and Algorithms, Digital Design, and Discrete Math
- Used written and oral communication skills to find students, plan sessions, and aid students clearly and effectively with exam preparation, difficult concepts, study habits, and grade improvements

***Undergraduate Teaching Assistant,* Georgia Tech College of Computing,** Atlanta, Georgia   May 2022 - Aug 2022
- Collaborated with 3 other teaching assistants to supervise more than 175 Computer Science students in learning topics related to object-oriented programming in Java.
- Hosted 7 hours of office hours per week to aid students in their learning, responded to over 100 questions on the class discussion page, and prepared engaging content for weekly 1-hour recitations to strengthen students' understanding of topics they will use throughout their careers.