Suha Sabi Hussain

PERMANENT ADDRESS Ozone Park, New York   **CURRENT ADDRESS** Atlanta, Georgia
PERSONAL WEBSITE sshussain.me   **PHONE NUMBER** 347-833-9675   **EMAIL** suhashussain1@gmail.com

Experience	**Machine Learning and Security Research Assistant**	August 2019 - Present

GEORGIA INSTITUTE OF TECHNOLOGY (ADVISOR: DR. WENKE LEE)

-Establishing differentially private speech recognition modules within MLSploit (a cloud-based REST API-reliant adversarial machine learning framework)

Machine Learning and Security Research Intern   June 2017 - June 2019

NYU CENTER FOR CYBERSECURITY (ADVISOR: DR. RAMESH KARRI)

-Researched, designed, and implemented a novel state-of-the-art machine learning-based and hardware-theoretic methodology to detect privacy violations in children's apps on the Android platform

Honors and Awards: IEEE TIFS Journal Submission. ACM 1st Award. NSA-RD 1st "Science Security" Award. NYCSEF 1st Award. Invited talk at the NSA. NYC JSHS Semifinals 3rd

-Developed a new method for the exploitation of speech recognition systems to highlight a major security vulnerability based upon previous research in machine learning and cybersecurity

Honors and Awards: Invited talk at the NSA. C3E Workshop Presentation and Publication. Intel ISEF 2nd Award. Shanghai STEM Cloud Award. NSA-RD 2nd "Science Security" Award. GoDaddy Data Award. ACM 4th Award. NYCSEF 1st Award. Sarah and Morris Wiesenthal Award. Naval Science Award. NYU Tandon Press Release

Machine Learning and Hardware Engineering Tutor   January 2017 - December 2018

FREELANCE

-Assisted with the development of machine learning and hardware solutions (eg. CNNs, Arduino RFID)

Hardware Engineering Intern   June 2016 - August 2016

VENGO LABS

-Contributed to rapid prototyping for product development, notably building a conveyor belt
-Developed and documented various technical procedures and tools while troubleshooting issues

Involvement   **Autonomous Vehicle Computer Vision Engineer**   August 2019 - Present

ROBOJACKETS INTELLIGENT GROUND VEHICLE COMPETITION SOFTWARE TEAM

-Developing and deploying a new perception system utilizing PyTorch and Robot Operating System (ROS)

Education   **Georgia Institute of Technology**   August 2019 - December 2022

B.S IN COMPUTER SCIENCE (HONORS PROGRAM)

-Concentrations: People (Human-Centered Computing) and Intelligence (Machine Learning)
-Relevant Coursework: Microelectronics and Nanotechnology. Privacy Technology, Policy and Law.

Queens High School for the Sciences at York College   September 2015 - June 2019

HIGH SCHOOL DIPLOMA

-Involvement: Head TA-Math Research. Founder+Captain-Robotics+Team Cyber. CTO-STEMinism. Art

Honors and Awards: NY State Senate Youth Leadership Recognition. Principal's Honor Roll/List. GW Award for Excellence in STEM. Silver Medal for Excellence in English. UFT Certificate of Merit for CS Applications. Math Research Award. Awards for AP Statistics, US, and World History. ED Certificate for Excellence in Reading. Joseph E. Collins Scholarship.

Certificates   Google igniteCS Bootcamp at Columbia University: Data Science   October 2017 - March 2018

Skills   Technical Languages: Python, Matlab, Bash/Shell, HTML, CSS, C/C++, Assembly, LaTeX
Frameworks and Toolkits: PyTorch, Scikit-Learn, Bootstrap, TensorFlow, Android, Kali Linux, ROS
Prototyping: Jupyter Notebooks/Google Colab, 3D Printing (Blender), Arduino, AutoCAD, Eagle PCB
Other: Agile, Adobe Illustrator, Data Science, Machine Learning, Security, Writing, Public Speaking