

# Suha Sabi Hussain

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**PERMANENT ADDRESS** Ozone Park, New York   **CURRENT ADDRESS** Atlanta, Georgia  
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Experience	<b>Machine Learning and Security Research Volunteer</b> GEORGIA INSTITUTE OF TECHNOLOGY (ADVISOR: DR. WENKE LEE) -Establishing differentially private speech recognition modules within MLSploit (a cloud-based adversarial machine learning framework)	August 2019 - Present
	<b>Machine Learning and Security Research Intern</b> 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  <u>Honors and Awards:</u> 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  <u>Honors and Awards:</u> 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	June 2017 - June 2019
	<b>Machine Learning and Hardware Engineering Tutor</b> FREELANCE -Coached and assisted startups and students in the development of machine learning and hardware solutions, including computer vision software and Arduino-based RFID scanners	January 2017 - December 2018
	<b>Hardware Engineering Intern</b> VENGO LABS -Assisted in rapid prototyping for product development, notably building a conveyor belt -Developed and documented various technical procedures and tools while troubleshooting issues	June 2016 - August 2016
	<b>Georgia Institute of Technology</b> B.S IN COMPUTER SCIENCE (HONORS PROGRAM) -Concentrations: People (Human-Centered Computing) and Intelligence (Machine Learning) -Involvement: RoboJackets Intelligent Ground Vehicle Competition- Software. SAA. Boxing -Relevant Coursework: Intro to the Microelectronics and Nanotechnology Revolution. Intro to Computing. Privacy Technology, Policy and Law. Malware Reverse Engineering (Projected: Spring 2020)	August 2019 - December 2022
Education	<b>Queens High School for the Sciences at York College</b> HIGH SCHOOL DIPLOMA -Involvement: Chief Trainer and Head Teaching Assistant of Math Research. Founder and Captain of the Robotics Team. Founder and Captain of Team Cyber (DVE). CTO of STEMInism. ARISTA. Urban Sketchers.  <u>Honors and Awards:</u> 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.	September 2015 - June 2019
	Google igniteCS Bootcamp at Columbia University: Data Science	October 2017 - March 2018
Certificates		
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	