

# Suha Sabi Hussain

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**PERMANENT ADDRESS** Queens, New York **CURRENT ADDRESS** Atlanta, Georgia  
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Experience	<b>Security Engineering Intern</b> TRAIL OF BITS May 2020 - Present -Developing a privacy testing suite for neural networks in Python
	<b>Security and Privacy Research Assistant</b> GEORGIA INSTITUTE OF TECHNOLOGY: INSTITUTE FOR INFORMATION SECURITY & PRIVACY August 2019 - Present -Conducting and developing data analysis procedures for Safe Browsing API behavior -Researching relevant cases of Internet censorship and surveillance for threat modeling
	<b>Security Engineering Intern</b> TRAIL OF BITS December 2019 - January 2020 -Contributed to the analysis of a cryptographic privacy vulnerability in Safe Browsing APIs -Built a web crawler, a NLP-based URL classifier, and a censorship test dataset for the threat modeling and simulation of a surveillance state scenario
	<b>Security and Privacy Research Intern</b> NYU CENTER FOR CYBERSECURITY June 2017 - June 2019 -Designed, implemented, and published 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> Invited talk at the NSA - Board of Directors. IEEE TIFS Publication. ACM 1st Award. NSA-RD 1st "Science Security" Award. NYCSEF 1st Award. NYC JSHS SF 3rd.
	-Developed, published, and presented a new method for the exploitation of speech recognition systems  <u>Honors and Awards:</u> Invited talk at the NSA - Research Directorate. 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
Involvement	<b>Hardware Engineering Intern</b> VENGO LABS June 2016 - August 2016 -Contributed to rapid prototyping for product development, notably building a conveyor belt -Developed and documented various technical procedures and tools while troubleshooting issues
	<b>Robotics Software Engineer</b> ROBOJACKETS INTELLIGENT GROUND VEHICLE COMPETITION August 2019 - Present -Redesigned and deployed a semantic segmentation neural network for an autonomous vehicle -Training members in and developing educational materials for machine learning in robotics
Education	<b>Georgia Institute of Technology</b> B.S IN COMPUTER SCIENCE August 2019 - December 2022 -Threads: People (Human-Computer Interaction) & Intelligence (Machine Learning) -Honors Program Living Learning Community Member -Relevant Coursework: Microelectronics and Nanotechnology. Privacy Technology, Policy and Law. Human-Centered User Interface Design. Data Structures & Algorithms.
Certificates	Google igniteCS Bootcamp at Columbia University: Data Science October 2017 - March 2018
Skills	General: Software Security Assurance, Machine Learning, Privacy Engineering, UI Design, Writing Languages: English (Native), Bengali (Fluent), Spanish (Intermediate), Arabic (Intermediate) Technical Languages: Python, C, C++, Golang, Bash, x86 Assembly, LaTeX, Git Machine Learning: PyTorch, Catalyst, TensorFlow, Keras, Sci-kit Learn, Pandas, Jupyter Notebooks Miscellaneous: Linux, Robot Operating System (ROS), 3D Printing, Arduino, EaglePCB, AutoCAD