Curriculum Vitae - Suha Hussain

PERSONAL WEBSITE sshussain.me   **GITHUB** https://github.com/suhacker1   **EMAIL** suhashussain1@gmail.com

Research Interest	Artificial Intelligence and Machine Learning Safety and Security	
Education	**Georgia Institute of Technology**	September 2019 - June 2023
	CANDIDATE FOR BACHELOR OF SCIENCE IN COMPUTER SCIENCE	
	Concentrated in People and Intelligence. Minor in Economics	
	Queens High School for the Sciences	September 2015 - June 2019
	HIGH SCHOOL DIPLOMA	
	Principal's Honor Roll. Taking all honors or AP courses	
	Google igniteCS Bootcamp at Columbia University	October 2017 - March 2018
	MATHEMATICAL MODELING CERTIFICATE	
	Learned to make use of Python for data analysis and mathematical modeling	
Research Experience	**Engineering Research Intern**	June 2017 - Present
	NYU CENTER FOR CYBERSECURITY	
	Mentor: Professor Ramesh Karri	
Publications	**Transformation**	February 2019
	QHSS LITERARY MAGAZINE	
	Prose piece	
	COPPTCHA: COPPA Tracking by Checking Hardware-level Activity	June 2019
	SUBMISSION	
	Secondary Version: "Detecting Privacy Violations in Children's Apps Using HPCs"	
	A New Method for the Exploitation of Speech Recognition Systems	September 2018
	POSTER: COMPUTATIONAL CYBERSECURITY FOR COMPROMISED ENVIRONMENTS FALL 2018 WORKSHOP	
Invited Talks	**A New Method for the Exploitation of Speech Recognition Systems**	August 2018
	NATIONAL SECURITY AGENCY RESEARCH AND DEVELOPMENT CENTER	

Honors and Awards	Association for Computing Machinery First Award (ISEF)	May 2019
	National Security Agency Research Directorate First "Science Security" Award (ISEF)	May 2019
	NYC Science and Engineering Fair First Award in Math & Computer Science (NYCSEF)	March 2019
	National Merit Scholar Finalist	February 2019
	NYC Junior Science and Humanities Symposium Semifinals Third in Computer Science	February 2019
	Intel International Science and Engineering Fair Second Award in Systems Software (ISEF)	May 2018
	Shanghai STEM Cloud Award (ISEF)	May 2018
	National Security Agency Research Directorate Second "Science Security" Award (ISEF)	May 2018
	GoDaddy Data Award (ISEF)	May 2018
	Association for Computing Machinery Fourth Award (ISEF)	May 2018
	NYC Science and Engineering Fair First Award in Computer Science (NYCSEF)	March 2018
	Sarah and Morris Wiesenthal Award (NYCSEF)	March 2018
	Naval Science Award (NYCSEF)	March 2018
	York College STEM Expo First Award for Sophomore Research	June 2017
	NCWIT Aspirations in Computing: NYC Affiliate Award	March 2017
	York College STEM Expo First Award for Physics	June 2016

Industry Experience	**Machine Learning and Hardware Engineering Consultant and Tutor**	January 2017 - December 2018
	FREELANCE	
	Coach and assist startup employees and students in the development of machine learning and hardware solutions, including text analysis software and Raspberry Pi-based WiFi extenders	
	Hardware Engineering Intern	June 2016 - August 2016
	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

Involvement	**Founder and Captain**	November 2016 - Present
	QHSS ROBOTICS	

Manage logistics, operations, recruiting, training, fundraising, and technical development for the team

Founder and Captain   October 2017 - Present
QHSS TEAM CYBER & THE DA VINCI EXPERIMENT

Foster the fusion of art and technology through lesson development and project management

Chief Engineering and Technology Officer   October 2015 - Present
QHSS STEMINISM

Enabled 400% growth and designed the operational infrastructure for training members in STEM skills

Chief Senior Trainer (formerly: Junior Trainer)   June 2017 - Present
MATH RESEARCH

Help develop, champion, and lead a team of 12 researchers that identify and pursue key topics in computer science and mathematics

Member   October 2018 - Present
EFFECTIVE ALTRUISM

Designer   November 2017 - Present
QHSS URBAN SKETCHERS

Press   **NYU Tandon Online**   June 2018
                 NEWS ARTICLE

"NYU Center for Cybersecurity Intern Captures Prestigious Intel International Science and Engineering Fair Prize"

Skills   Languages: English, Bengali, Arabic
                 Technical Languages: C/C++, Python, Assembly, Matlab/Octave, Verilog, BASH, HTML+CSS, Javascript
                 Tools: PyTorch, TensorFlow, Keras, Scikit Learn, Android NDK, Arduino, AutoCAD, CATIA, Eagle PCB
                 Other: Mathematical Modeling, Writing (Prose, Screenplays, Technical), Public Speaking, Teaching

Affiliations   Association for Computing Machinery

Other Interests Effective Altruism, Art, Economics, Cognitive Science, Critical Theory, Futurism, Hardware Security, Space

References   **Ramesh Karri**
                 NYU TANDON PROFESSOR; CO-FOUNDER AND CO-CHAIR OF NYU CCS

                 Email: rkarri@nyu.edu
                 Phone Number: 646.997.3596

                 Jose Mondestin
                 QHSS AP STATISTICS AND MATH RESEARCH TEACHER

                 Email: jmondestin@schools.nyc.gov

Notes   Currently working on a cybersecurity project with Dr. Daniel Clouse of the National Security Agency