

# Curriculum Vitae - Suha Hussain

PERSONAL WEBSITE [sshussain.me](http://sshussain.me) GITHUB <https://github.com/suhacker1> EMAIL [suhashussain1@gmail.com](mailto:suhashussain1@gmail.com)

Research Interest	Artificial Intelligence and Machine Learning Safety and Security	
Education	<b>Queens High School for the Sciences</b> HIGH SCHOOL DIPLOMA Principal's Honor Roll. Taking all honors or AP courses	September 2015 - June 2019
	<b>Google igniteCS Bootcamp at Columbia University</b> MATHEMATICAL MODELING CERTIFICATE Learned to make use of Python for data analysis and mathematical modeling	October 2017 - March 2018
Research Experience	<b>Engineering Research Intern</b> NYU CENTER FOR CYBERSECURITY Mentor: Professor Ramesh Karri	June 2017 - Present
Workshop	<b>Computational Cybersecurity for Compromised Environments Fall 2018 Workshop</b> POSTER: A NEW METHOD FOR THE EXPLOITATION OF SPEECH RECOGNITION SYSTEMS	September 2018
Invited Talks	<b>A New Method for the Exploitation of Speech Recognition Systems</b> NATIONAL SECURITY AGENCY RESEARCH AND DEVELOPMENT CENTER	August 2018
Conferences	<b>HPCA: HPC-based COPPA violations Analyzer [SUBMISSION]</b> 56TH DESIGN AUTOMATION CONFERENCE	2019
Honors and Awards	National Merit Scholar Semifinalist Intel International Science and Engineering Fair Second Award in Systems Software (ISEF) Shanghai STEM Cloud Award (ISEF) National Security Agency Research Directorate Second "Science Security" Award (ISEF) GoDaddy Data Award (ISEF) Association for Computing Machinery Fourth Award (ISEF) New York City Science and Engineering Fair First Award in Computer Science (NYCSEF) Sarah and Morris Wiesel Award (NYCSEF) Naval Science Award (NYCSEF) York College STEM Expo First Award for Sophomore Research NCWIT Aspirations in Computing: NYC Affiliate Award York College STEM Expo First Award for Physics	October 2018 May 2018 May 2018 May 2018 May 2018 March 2018 March 2018 March 2018 June 2017 March 2017 June 2016
Industry Experience	<b>Machine Learning and Hardware Engineering Consultant and Tutor</b> 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	January 2017 - Present
	<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
Involvement	<b>Founder and Captain</b> QHSS ROBOTICS Manage logistics, operations, recruiting, training, fundraising, and technical development for the team	November 2016 - Present
	<b>Founder and Captain</b> QHSS TEAM CYBER & THE DA VINCI EXPERIMENT Train members for competitions and facilitated the development of computer engineering skills	October 2017 - Present
	<b>Chief Engineering and Technology Officer</b> QHSS STEMINISM	October 2015 - Present

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

Manage the development of research projects and ensure deadlines are met

**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  
Technical Tools: 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, Economics, Cognitive Science, Science Fiction, Space Exploration, Hardware Security

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