

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	Queens High School for the Sciences HIGH SCHOOL DIPLOMA Principal's Honor Roll. Taking all honors or AP courses	September 2015 - June 2019
	Google igniteCS Bootcamp at Columbia University MATHEMATICAL MODELING CERTIFICATE Learned to make use of Python for data analysis and mathematical modeling	October 2017 - March 2018
Research Experience	Engineering Research Intern NYU CENTER FOR CYBERSECURITY Mentor: Professor Ramesh Karri	June 2017 - Present
Publications	Transformation QHSS LITERARY MAGAZINE Prose piece	February 2019
	HPCA: HPC-based COPPA violations Analyzer 56TH DAC CONFERENCE SUBMISSION Secondary Version: "Detecting Privacy Violations in Children's Apps Using HPCs"	June 2019
	A New Method for the Exploitation of Speech Recognition Systems POSTER: COMPUTATIONAL CYBERSECURITY FOR COMPROMISED ENVIRONMENTS FALL 2018 WORKSHOP	September 2018
Invited Talks	A New Method for the Exploitation of Speech Recognition Systems NATIONAL SECURITY AGENCY RESEARCH AND DEVELOPMENT CENTER	August 2018
Honors and Awards	National Merit Scholar Finalist NYC Junior Science and Humanities Symposium Semifinals Third in Computer Science 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 Wiesenthal 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	February 2019 February 2019 May 2018 May 2018 May 2018 May 2018 May 2018 March 2018 March 2018 March 2018 June 2017 March 2017 June 2016
Industry Experience	Machine Learning and Hardware Engineering Consultant and Tutor 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 - December 2018
	Hardware Engineering Intern 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	Founder and Captain QHSS ROBOTICS Manage logistics, operations, recruiting, training, fundraising, and technical development for the team	November 2016 - Present

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
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