Suha Sabi Hussain

PERMANENT ADDRESS Brooklyn, New York CURRENT ADDRESS Atlanta, Georgia
PERSONAL WEBSITE sshussain.me PHONE NUMBER 347-833-9675 EMAIL suhashussain1@qmail.com

Experience

Security Engineering Intern

December 2019 - Present

TRAIL OF BITS

-Analyzing and improving the privacy of online safe browsing mechanisms through cryptography

Machine Learning Security and Privacy Research Assistant

August 2019 - Present

GEORGIA INSTITUTE OF TECHNOLOGY: INSTITUTE FOR INFORMATION SECURITY & PRIVACY

-Building a module for differential privacy and speech recognition within a cloud-based adversarial machine learning web service (MLSploit)

Machine Learning Security and Privacy Research Intern

June 2017 - June 2019

NYU CENTER FOR CYBERSECURITY

-Designed, implemented, and presented 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 to highlight a major security vulnerability

<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

Machine Learning and Hardware Engineering Tutor

January 2017 - December 2018

FREELANCE

-Assisted with the development of machine learning and hardware solutions, including RFID and CNNs

Hardware Engineering Intern

June 2016 - August 2016

VENGO LABS

- -Contributed to rapid prototyping for product development, notably building a conveyor belt
- -Developed and documented various technical procedures and tools while troubleshooting issues

Involvement

Robotics Software Engineer

August 2019 - Present

ROBOJACKETS INTELLIGENT GROUND VEHICLE COMPETITION

- -Redesigning and deploying an object recognition system for an autonomous vehicle
- -Implementing tools for continuous integration and automated testing for Python & PyTorch
- -Training members in and developing educational materials for machine learning in robotics

Education

Georgia Institute of Technology

August 2019 - December 2022

B.S IN COMPUTER SCIENCE

- -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. Introduction to Object-Oriented Programming.

Certificates

Google igniteCS Bootcamp at Columbia University: Data Science

October 2017 - March 2018

Skills

Languages: English (Native), Bengali (Fluent), Spanish (Intermediate), Arabic (Intermediate) Technical Languages: Python, C/C++, BASH, Assembly, HTML/CSS, Matlab, LaTeX

Machine Learning: PyTorch, Sci-kit Learn, TensorFlow, Jupyter Notebooks/Google Colaboratory Robotics and Hardware: Robot Operating System (ROS), 3D Printing, Arduino, AutoCAD, Eagle PCB Miscellaneous: Linux, Android Studio, Privacy Compliance, Privacy Impact Assessments, Canva