

Shounak Ghosh

(669) 273-9966 • shounak.ghosh@nyu.edu • [linkedin.com/in/shounak-ghosh](https://www.linkedin.com/in/shounak-ghosh) • <https://github.com/shounak-ghosh>

Education

New York University , Tandon School of Engineering, Brooklyn, NY B.S. Computer Science, GPA: 4.0 <i>Relevant Coursework: Data Structures, Algorithms, Data Analysis, and Linear Algebra</i>	May 2026
FourthBrain.ai , Machine Learning Engineering Program <i>Relevant Topics: Computer Vision, Object Detection, NLP, Auto-ML, ML-Ops</i>	August 2022
Stanford University (Coursera) , Graph Algorithms & Specializations	May 2019

Technical Skills

Coding Languages:	Python, Java, C++, HTML, CSS, JavaScript, React.js, NodeJS
Machine Learning:	Tensorflow, Keras, PyTorch, OpenCV, Scikit, Seaborn, Matplotlib, Pandas, Numpy, MediaPipe
Other Tools:	Fusion360, Cura, Revit, Mathematica, Gretl, LaTeX, Word, Excel

Work Experience

Software Engineering Intern: Oloid.ai , San Jose, CA	Summer 2021, 2022
<ul style="list-style-type: none">Built image classifier for 13+ types of RFID badge scanners with 98% accuracy, used for easy identification and integration with Oloid's trademark keyless scannerUsed Tensorflow-Keras pipeline with data tuning and augmentation, React.js frontend for real-time image classificationBuilt AI liveness detection model for user authentication in contactless-identification environmentUsed Python, C++, and Google's MediaPipe facial recognition repository	
Team Member: Jamba Juice , San Jose, CA	Summer 2021
<ul style="list-style-type: none">Managed fluctuating customer queue while providing personalized experiences as part of a dynamic service teamExhibited thorough knowledge of food and beverage menu and upsold to 75% of customers daily	

Academic Projects

Optimized Context-Aware Defenses for Image Classifiers	Summer 2021
<ul style="list-style-type: none">Surpassed predetermined adversarial-resistance benchmarks via combination of 10 unique black & white-box models	
Developed EKG Classifier Resistant to Adversarial Attacks	Summer 2020
<ul style="list-style-type: none">Augmented state-of-the art 34-layer EKG classifier to provide accurate results when given adversarial (malicious) dataImplemented using Google Colab and 2017 Computing in Cardiology dataset (PyTorch)	
Computer Architecture	Fall 2020
<ul style="list-style-type: none">Designed finite-state machines, multiplexers, Karnaugh maps, and implemented using logic gates on breadboard	
Neural Networks	Spring 2020
<ul style="list-style-type: none">Built an N-layer Perceptron model from scratch capable of image recognition (Java)	
Compilers & Interpreters	Fall 2019
<ul style="list-style-type: none">Built compiler for the Pascal language and interpreter for arbitrary context-free grammar	

Leadership Experience

1072 Harker Robotics – Electrical Subteam Director	Fall 2018 - 2022
<ul style="list-style-type: none">Coordinated workdays and delegated tasks between underclassmen leads, parent volunteers, and newer membersGained experience in robot design, electrical wiring, machining parts, mechanical assembly, and woodworkHelped organize and volunteered at outreach summer robotics camp	
Silicon Valley Bike Exchange	Summer 2021
<ul style="list-style-type: none">Mentored incoming volunteers on basic bike repair techniques and collected used bike donations via NextDoor80 volunteer hours with over 50 bikes repaired and 15 donations collected over 3-month period	
Inspirit AI Ambassador – Top 10 Fellow	Summer 2021
<ul style="list-style-type: none">Conducted outreach providing AI learning resources to multiple schools, clubs and communities over a 5-week periodPresented to 40+ individuals about the importance of ethics in AI and the diversification of datasets and researchers	

Honors

Presidential Service Award	Fall 2021
Synopsys Regional Fair, Computational Biology Category, Honorable Mention	Spring 2021
United States Physics Olympiad Semifinalist	Spring 2021
Tests of Engineering, Aptitudes, and Science (TEAMS) 3 rd in CA	Spring 2020