# Nishad Sharker

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## RESEARCH EXPERIENCE

**Sinha Laboratory at Massachusetts Institute of Technology** **Cambridge, Massachusetts**
*Research Intern* June 2017 – November 2017

- Developing MATLAB scripts to analyze and extract features from EEG data of Autism Project subjects
- Implemented a k-nearest neighbor machine learning algorithm to classify EEG Data with 86% accuracy
- Presented at the MIT Summer Research Program and the Center for Brains, Minds and Machines

**Problem Solving and Machine Learning Laboratory at Hunter College** **New York, New York**
*Undergraduate Researcher* November 2016 – December 2017

- Developing a robot navigation program in Python to identify hallways from simulated laser readings
- Developed a program in Python using the Pillow library to visualize simulated laser reading data by overlaying the coordinates of where the lasers hit the wall onto a floor plan using the angle of the lasers and the distance the lasers travels
- Review and analyze academic papers specific to machine learning and artificial intelligence to keep up with current technology trends

## EDUCATION

**Hunter College** **New York, New York**
*Bachelor of Arts in Computer Science* December 2017

- **GPA:** 4.0
- **Relevant Coursework:** Software Design and Analysis III, Discrete Structures, Computer Architecture III, Operating Systems, Computer Theory, Artificial Intelligence, Machine Learning, Database Management, Matrix Algebra, Unix Tools

## Skills

C++, MATLAB, Python, C, Assembly (MIPS), LISP, OpenCL, SQL,

## PROJECTS

**Raspberry Pi Motion Detection Surveillance System** **May 2017**

- Built a security program in Python to capture and email an image when motion is detected
- Implemented motion detection by comparing subsequent images and detecting pixel changes on the green channel to improve performance

**HouseHunter** **February 2017 – May 2017**

- Developed a web application utilizing the scikit-learn machine learning library to predict housing prices
- Designed and coded python scripts to analyze and extract features from over 150 gigabytes of data

**File Synchronizer** **October 2016**

- Developed a program in C++ using libcurl to synchronize a directory of files from an external source
- Implemented as a management system for a music playlist to save time in updating new additions and removals across various computers

## LEADERSHIP EXPERIENCE

**New York Cares** **New York, New York**
*Team Leader* December 2011 – Present

- Recognized on corporate website for leading over 200 volunteer projects, including New York Care's most successful chess project, which meets weekly to instruct children on fundamental chess strategies
- Communicate project goals and manage up to 15 volunteers on different projects
- Lead New York Care Express Orientations for new volunteers to explain guidelines and expectations