

# Shaan Sheikh

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## Education

Stony Brook University | May 2018

B.S. Computer Science, Applied Math & Statistics  
Stony Brook Presidential Scholarship recipient

Stuyvesant High School | Jun 2014

## Experience

Software Developer Intern | Pitney Bowes  
Summer 2017

Working on reducing shipping costs by creating a recommendation engine that finds and suggests optimal shipping options using **AI and bin packing algorithms**. Created a web based REST api for the engine using **python flask**.

NLP Research Assistant | Stony Brook U.  
Jan 2017 - May 2017

Involved in **natural language processing research** improving relationship extraction from text while improving on scalability and reducing redundancy of existing models using relation embeddings.

Full-stack Web Developer | NotesCentral  
Dec 2014 - Aug 2015

Built a **full stack website** for a new student run startup as the sole developer. Site allowed students to share notes, comment on notes, rate posts, earn karma. Uses **bootstrap, flask, sqlite3 stack**.

## Skills

### Languages and Tools

Python | Java (& JavaFX) | HTML/CSS | Javascript  
SQL | C | MIPS | OpenGL | Git | Linux/Bash

### Data

PyTorch | OpenCV | SQL | d3.js | Jupyter notebooks  
NumPy | Pandas

### Web

Python Flask | Javascript | JQuery | Angular.js | d3.js  
Bootstrap

## Awards & Activities

**First place winner in Microsoft College Coding Competition (MSFT3C)**

**First place winner at Museum of Math hackathon**

**Best Nutrition Hack** at HackHealth

PennApps XVII **top 30** (out of 157 teams)

Stony Brook Computing Society community leader

## Algorithm & Data Projects

Neural Style Transfer

May 2017 | **Computer Vision**

A program that transfers the artistic style of one picture to a non-artistic photograph using VGG-16 (a neural network trained for image recognition) and **PyTorch**.

Twitter Reporter

May 2016 | **Natural Language Processing**

A program that monitors all tweets made in NYC. It identifies trending topics and constructs news headlines for topics receiving increased discussion.

Photo-bomber Remover

September 2015 | **Computer Vision**

A terminal based tool that removes photobombers from pictures. Uses Python Imaging Library to implement a **seam carving algorithm**.

Hidden In Plain Sight

April 2015 | **Steganography**

A small web tool that hides text inside images using steganography and uploads the pictures to Imgur, and decodes text from a image URL. Built with Flask and PIL

## Web & Software Projects

Augmented Reality Navigation App

January 2018 | ARCore, OpenGL

An Augmented Reality android app that overlays your route on the real world using Google's ARCore library and OpenGL. Placed in top 30 at PennApps.

Center of Mass exhibit at Museum of Math

August 2017 | Javascript, p5.js

**Won first place at MoMath's hackathon and currently on display as an exhibit.** An interactive game created for the MoMath's Math Square. Players need to collaborate to move their center of mass to a target

Course Monitor Chatbot

April 2016 | Python Flask, Sqlite3

A Facebook messenger and SMS chatbot that monitors the status of filled classes students want to take, and messages them when a seat opens up, allowing them to be the first to claim the open seat. **Allowed me to gain seats in three filled classes.**

Meal Point Usage Visualizer

June 2015 | Python Flask, d3.js

A tool that scrapes students' meal plan usage history for students at SBU and analyzes and visualizes data various interactive graphs made with d3.js and Python backend. **Used by over a hundred students.**