

Shaan Sheikh

www.shaansweb.com | www.github.com/shaanssheikh | shaansweb@gmail.com | 347 674 2261

Education

Stony Brook University | May 2018
B.S. Computer Science, Applied Math & Statistics
Stuyvesant High School | Jun 2014

Experience

Software Developer Intern | Pitney Bowes
Summer 2017

Worked 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, etc. Uses **bootstrap, flask, sqlite3 stack**.

Skills

Languages and Tools

Python | Java (& JavaFX) | HTML/CSS | Javascript
SQL | C | MIPS | 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 in machine learning sponsor challenge at hack@CEWIT

First place winner at Museum of Math hackathon

Best Nutrition Hack at HackHealth

Best MongoDB Hack at Bitcamp hackathon

Algorithm & Data Projects

PillBug: Smart internet connected pillbox
May 2017 | **Computer Vision**

A smart pillbox that uses computer vision using **openCV** to understand the state of a pillbox used by a geriatric patient, and notifies caretakers when a dosage is skipped or extra dosage is taken. Won Best MongoDB Hack at Bitcamp

Neural Style Transfer

May 2017 | **Computer Vision**

A program that transfers the artistic style of one picture to a non-artistic photograph using 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**.

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/SMS chatbot that monitors the status of filled classes students want to take, and messages them when a seat opens up, allowing them to claim the seat first.

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 using various interactive graphs made with d3.js and Python backend. **Used by over a hundred students.**