

Shrey Prakash Sahgal

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EDUCATION

University of Michigan

B.S.E. in Computer Science

Relevant Coursework: Discrete Math, Programming and Data Structures, Calculus

Ann Arbor, MI

Class of 2024

Horace Mann School

High School Diploma

3.8/4.0 GPA

Relevant Coursework: AP Computer Science A, AP Physics (Mechanics, Electricity and Magnetism), Discrete Math and Election Theory

Bronx, NY

Class of 2020

EXPERIENCE

Essen Medical Healthcare

SWE/Data Science Intern

Bronx, NY

March 2020 – September 2020

- Developed a REST API using Flask and PostgreSQL to store and manage patient and healthcare worker data to limit doctors/nurses/care managers workload and enhance patient care
- Developed a full-stack web application using Flask, React, and PostgreSQL so administrative assistants can match patients and healthcare workers.
- Explored ways to visualize doctor/nurse/care manager caseloads and productivity and analyze patient data

SWE Intern

June 2018 – Sep 2018

- Used Node.js, mongoDB, and Twilio to set up a web application which helped care managers establish reliable contact with at-risk, homeless, and non-native English speaking patients

Quio Biotechnologies

SWE Intern

New York, NY

May 2019 – October 2019

- Used Flask, PostgreSQL, Health and Human Services API, Twilio API, and Google Cloud Storage to create a centralized, categorized
- Assess and troubleshoot computer problems brought by students, faculty and staff
- Maintain upkeep of computers, classroom equipment, and 200 printers across campus

PROJECTS

DancingOrFalling | *Python, Flask, React, Firestore*

February 2020 – Present

- Used Flask, Firestore, and Reddit's API to create a semi-popular fullstack web app with 50 peak concurrent users and 1000 unique users
- Users would be shown a freeze-frame image either of someone falling down or break-dancing and they limited time to determine which it is
- Used the Reddit API and scikit-video to develop an algorithm which would browse reddit and find freeze-frame images of people either dancing or falling
- Used FastAPI to develop a REST API to quickly retrieve the images

Staycate | *Flask, React, Twitter API, Instagram API, leaflet.js*

May 2020 – August 2020

- Developed an interactive web map which displays social media posts from around the area a user is navigating
- Used Flask to make a REST API which fuses the Instagram and Twitter APIs and allows developers to request posts specifically with media and within certain distance from a latitude longitude (a functionality which is not entirely native to either API)

TECHNICAL SKILLS

Software: Python (+Flask/FastAPI), C/C++, Java (+Android), SQL (Postgres), JavaScript +(React/Node.js), HTML/CSS, LaTeX

Developer Tools: Git, Emacs, VS/VSCode, Google Cloud Platform

Math: Matrix Algebra, Discrete Math, Calculus

Hardware: Autodesk Inventor, OpenSCAD, Fusion 360, Shop Tools (saws, sanders, routers, mills)