

Shrey Prakash Sahgal

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EDUCATION

University of Michigan

B.S.E. in Computer Science

Ann Arbor, MI

Class of 2024

Relevant Coursework: Data Structures and Algorithms, Discrete Math, Programming and Data Structures, Calculus, Physics, Chemistry, Astrophysics

Horace Mann School

High School Diploma

Bronx, NY

Class of 2020

EXPERIENCE

Coopsight LLC

Software Developer

Ann Arbor, MI

January 2021-Present

- Implemented models to extract keywords and discover synergies to help venture capitalists evaluate their portfolios and dealflows.
- Deployed scalable, RESTful APIs on Kubernetes.

University of Michigan Space Physics Research Lab

Research Intern

Ann Arbor, MI

January 2021-Present

- Collected and analyzed data from the Parker Solar Probe, a NASA space probe launched in 2018 with the mission of making observations of the sun's outer corona.

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 optimize patient care.
- Explored ways to visualize care management productivity and analyze patient data.

SWE Intern

June 2018 – Sep 2018

- Utilized Node.js, MongoDB, and Twilio to set up a web application which helped care managers establish reliable contact with homeless and at-risk 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 database of healthcare articles.
- Implemented a rating/tagging algorithm to show users articles relevant to their care plans.

PROJECTS

DancingOrFalling | Python, Flask, React, Firestore

February 2020 – September 2020

- Built a semi-popular fullstack web app with 60 peak concurrent users and 1000 unique users where users are shown a freeze-frame image either of someone falling down or break-dancing and they have limited time to determine which it is.
- Designed an algorithm which would browse reddit and find freeze-frame images of people either dancing or falling using the Reddit API and scikit-video.

Garf! | Flask, OpenCV, jQuery

March 2020 – May 2020

- Created a website which generates random Garfield comics by splicing and re-arranging frames from old comics.
- Deployed a RESTful API which splits images of comics into panels using OpenCV.

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)