

SHREY JOSHI
SHREYJOSHI2004@GMAIL.COM
<https://www.linkedin.com/in/sjoshi1729/>

EXPERIENCE

GLAS: A Global Landslide Analytics System (Github)

Aug 2020 - Present

Researcher

- Issues landslide alerts using Random Forests & LSTMs.
- Presented at 2021 MIT URTC Conference ([Presentation](#)) and 2021 Regeneron ISEF ([Presentation](#)).
- Won \$10,000 in funding from National Geographic.
- Currently Processing 250+ GB of historical satellite/geological data to find unreported landslides.
- Used: Python, Scikit-Learn, Keras, Matplotlib, OSGeo, Rasterio.

Grassroots Democrats HQ

June 2020 - Apr 2021

Software Developer

- Sole developer for organization of 150 volunteers.
- Automated distribution of 600,000 postcards, scripts, and addresses to volunteers around the USA.
- Used: React, Flask, Jupyter, Pandas.

JusticeCoin

June 2020 - Jan 2021

Team Lead

- Turns your computer's processing power into charitable donations using decentralized cryptomining.
- Lead developer on team of 2 others building website and native desktop app.
- Led to \$2,200 donated through mining, grants, and competitions.
- Used: React, Electron.

UTD Remote Aerial Sensing Lab

June 2019 - Dec 2019

Research Assistant

- Calibrated low-cost air quality sensors for cheaper, more accurate data acquisition.
- Pitched commercial applications of these sensors (vape sensors) to HS schools across North Texas.

PROJECTS

BirdWatch (Github)

May 2021

- App that allows users to identify species of birds around them. Collects image/location data in a dashboard.
- Used: Android Studio, TF/Keras, React, Firebase.

RetnoScan (Github)

July 2020

- Allows at-home diagnosis of Diabetic Retinopathy from eye fundus images using deep learning.
- Used: React, Node.

Scribblio Clone (Frontend) (Backend)

June 2019

- Multiplayer guess-the-drawing game with a built-in chat.
- Used: React, Node, WebSockets.

SELECTED AWARDS AND HONORS

- **Regeneron ISEF:** 2021 Best of Category (Top 26 of 7M). 3x Grand/Special awards. Cumulative \$10,000 won.
- **IEEE MIT URTC Conference:** Presented at 2021 conference & published in conference proceedings.
- **NBC News:** Full-Length Feature on NBC-DFW for my research on applying AI to ophthalmology.

NONPROFITS AND SERVICE

CASH Club

Jan 2021 - Present

Events Lead

- Largest network of student-run HS investment clubs globally (150 chapters).
- Organized guest speaker events investment banks like Merrill Lynch and JPMorgan.
- Coordinated regional virtual investing competition using Invstr with 200+ participants.

EDUCATION

Plano East Senior High School

2018-2022

- Rank: 30/1354 (Top 3%) | GPA: 4.51/5