SHREY JOSHI

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EXPERIENCE

GLAS: A Global Landslide Analytics System (Github) (Research Board)   *Aug 2020 - Present*
Researcher (mentored by Dr. Rathje at UT-Austin)
- Processes geophysical & climate data using Random Forests and LSTMs to issue landslide alerts (Exceeded SOTA by 15%)
- Presented at 2021 MIT URTC Conference (Presentation) and 2021 Regeneron ISEF (Presentation)
- Acquired $10,000 in funding from National Geographic and USAID
- Used: Python, Scikit-Learn, Keras, Matplotlib, OSGeo, Rasterio

Grassroots Democrats HQ (Github)   *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
- Built Google voice chrome extension (Github) to send texts to volunteers for daily shifts
- Used: React, Flask, Jupyter, Pandas

JusticeCoin (Github)   *June 2020 - Jan 2021*
Dev 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

OTHER NOTABLE PROJECTS

BirdWatch (Github)   *May 2021*
- App that allows users to identify species of birds around them and 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 Intl. Science & Eng. Fair:** 2021 Best of Category (Top 26 of 7M); 3x Grand/Special awards; Total $10,000 won
- **IEEE MIT URTC Conference:** Paper presenter at 2021 conference
- **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 with Merrill Lynch, JPMorgan, and local firms
- Coordinated regional virtual investing competition using Invstr with 200+ participants

EDUCATION

Plano East Senior High & Collin College (Dual-Credit)   *2018-2022*
- Rank: 30/1354 (Top 3%) | GPA: 4.51W, 3.88 UW