

Shrey Joshi

Website: shreyjoshi.com
Phone: +1 (972)-979-0673

Email: sxj210081@utdallas.edu

LinkedIn: in/sjoshi1729

GitHub: @shreyj1729

EDUCATION

- **University of Texas at Dallas** Richardson, TX
B.S. Computer Science: CS² Honors, National Merit & Collegium V Scholar *Expected Graduation: 2025*
 - **Relevant Coursework:** DS & Algorithms, C/C++ in UNIX, Computer Architecture, Linear Algebra
 - **Clubs & Activities:** Association for Computing Machinery, AI Society, Dallas Formula Racing

EXPERIENCE

- **Boston University** Boston, MA
ML Researcher *June 2022 - Aug 2022 (Expected)*
 - Analyzing large-scale satellite imagery data using machine learning
- **GLAS: A Global Landslide Analytics System [Github] [Poster] [Publication]** Remote
Researcher at UT-Austin *Aug 2020 - Present*
 - Processes geophysical/climate data using Random Forests to issue landslide alerts (Exceeded SOTA by 15%)
 - Presented at the 2021 IEEE MIT URTC Conference & 2021 Regeneron ISEF [Presentation]
 - Acquired \$10,000 in research funding from National Geographic and US Agency for International Development
- **Association for Young Scientists & Innovators** Dallas, TX
Summer Camp Director *June 2020 - Present*
 - **2022 Summer Coding Institute:** Creating new AI & CS curriculum and directing hybrid virtual/in-person programming camp with 200 MS/HS students and 30 instructors.
 - **2021 Science Fair Academy:** Delivered lectures on science research and provided 1-on-1 mentorship.
- **Grassroots Democrats HQ [Github]** Remote
Software Developer *June 2020 - Apr 2021*
 - Sole developer for organization of 450 volunteers (grassrootsdems.org)
 - Automated distribution of 600,000 postcards, scripts & addresses to volunteers around the USA
- **JusticeCoin [Github]** Remote
Dev Team Lead *June 2020 - Jan 2021*
 - 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

PROJECTS

- **Rusty [Github] [Demo]** A chess engine written in Rust (demo ported to WebAssembly) featuring efficient bitboard representation, alpha-beta searching, transposition tables, & advanced move-ordering (MVV-LVA). Used: Rust, WebAssembly, HTML/CSS/JS
- **BirdWatch [Github]** Mobile app that uses a ResNet CNN to identify species of birds and collects image/location data in a dashboard. Used: Android Studio, TF/Keras, React, Firebase RTDB
- **RetnoScan [Github]** Mobile app that uses transfer learning with a MobileNet CNN to classify eye fundus abnormalities (Diabetic Retinopathy). Used: Android Studio, TF/Keras

SELECTED HONORS AND AWARDS

- **Regeneron ISEF:** 2021 Best-of-Category (Top 26 of 7M); 3x Grand/Special awards; Total \$10,000 won
- **IEEE MIT URTC:** Presented & published computational landslide analytics paper at 2021 virtual conference
- **HackRice:** 2nd overall of 283 HS/undergrad teams + Data2Knowledge Labs Challenge winner; \$3000 cumulative in prizes (4 electric scooters & Apple Airpod Pros)

SKILLS

- **Languages:** Python, HTML/CSS/JS, TypeScript, Rust, Bash, L^AT_EX, Java, C# (intro) C/C++ (intro)
- **Tools/Libraries:** PyTorch, TensorFlow/Keras, React, Node, Flask, Jupyter, EarthEngine, Unity, Firebase, Git
- **Miscellaneous:** Linux, Excel, Guitar