

# SHREY JOSHI

+1 (972)-979-0673 | [shreyjoshi2004@gmail.com](mailto:shreyjoshi2004@gmail.com) | [linkedin.com/in/sjoshi1729](https://www.linkedin.com/in/sjoshi1729) | [github.com/shreyj1729](https://github.com/shreyj1729)

## EDUCATION

### University of Texas at Dallas

B.S. Computer Science: AES (Full Ride) & National Merit Scholar

Richardson, TX

Fall 2022 – Spring 2026

- **Coursework:** Adv Data Structures & Algorithms, C/C++ in Unix, Computer Architecture

## EXPERIENCE

### PwC

Software Engineering Intern

Jun 2024 - Aug 2024

Austin, TX

- Created and deployed configuration settings frontend (Angular) for an internal code automation tool used by ~120+ apps and 20k+ users firm-wide; synced GUI data with Azure micro-services

### Minion AI

Software Engineer

Jan 2023 - Feb 2023

Remote

- Built anything-to-text API across 20 different file types to feed into LLM-based browser automation assistant
- Deployed and bench-marked web crawler (using above API) on 50+ domains to collect LLM training data

### University of Texas at Austin

Machine Learning Researcher

Aug 2020 - April 2022

Remote

- Compiled first-of-its-kind Global Landslide Incidents and Features (GLIF) dataset by processing ~200GB of geophysical data across 6 data sources using Google EarthEngine, GDAL and ArcGIS
- Trained Random Forest models on GLIF for landslide analytics with 86.3% binary and 72.6% categorical (severity) prediction accuracy; generated static global susceptibility map from RF feature importances
- Presented & published paper at the 2021 IEEE MIT URTC Conference

## PROJECTS

### TermCall | Rust, WebRTC, LibSIXEL, Firebase RTDB

Jan 2024 – Present

🔗 [github.com/ShreyJ1729/termcall](https://github.com/ShreyJ1729/termcall)

- Developed in-terminal FaceTime clone using WebRTC audio/video and ASCII graphics (<100ms latency, ~30 fps)
- Created, labeled, and prioritized active feature list of 23+ issues; tracking progress/bugs with Github projects

### ClipTranslator | Python, Modal Labs, Wav2Lip, ElevenLabs

Nov 2023 – June 2024

🔗 [github.com/ShreyJ1729/cliptranslator](https://github.com/ShreyJ1729/cliptranslator)

- Used ElevenLabs API and Wav2Lip in series to dubb and lip-sync videos from/to any of 29 languages
- Tested 2 lip-syncing models ([Video-Retalking](#) and [Wav2Lip](#)) and deployed web endpoints on Modal Labs

### Rusty Chess Engine | Rust

Mar 2023 – June 2024

🔗 [github.com/ShreyJ1729/rusty-chess-engine](https://github.com/ShreyJ1729/rusty-chess-engine)

- Blazing-fast WIP chess engine built from scratch in pure Rust (4M moves/s single-threaded)
- Used magic bitboards for efficient board representation and perft (performance) testing suite of 43 unique cases

### BioConceptXplorer | Python, React, Streamlit, Scikit-learn

Jun 2023

🔗 [github.com/Cognition-Labs/BioConceptXplorer](https://github.com/Cognition-Labs/BioConceptXplorer)

- Used pre-trained vector embeddings of proteins/genes/chemicals from 30 million PubMed papers to explore and test undocumented molecular interactions at scale; Codon Digest winner at Bio X ML Hackathon ([hackathon.bio](https://hackathon.bio))

### PairProgram | React, Node, WebSockets, Heroku

Dec 2022 – Jan 2023

🔗 [github.com/pairprogram-app/](https://github.com/pairprogram-app/) | 🏠 [pairprogram-app.github.io/](https://pairprogram-app.github.io/)

- Fullstack app for in-browser pair programming with linting for 42 languages and list of active users
- Implemented operational transformation over WebSockets for real-time multi-user editing (<50ms latency)

## TECHNICAL SKILLS

**Languages:** Java, Python, Rust, C/C++ (intro), HTML/CSS/JavaScript, Bash, SQL

**Developer Tools:** Git, Docker, VS Code, Azure DevOps, Postman, Modal Labs, Unity

**Libraries/Frameworks:** React, Angular, Node, OpenCV, TensorFlow/Keras, PyTorch, Scikit-Learn, MongoDB