

# Krish Bharal

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## EDUCATION

### Bachelor of Engineering in Computer Engineering

The University of Texas at Dallas, Richardson, TX

### Academic Excellence Scholarship

Relevant Coursework: Computer Science II, Discrete Mathematics for Computing

May 2027

GPA 3.92

Fall 2024 - Present

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## SKILLS

**Coding Languages:** Java, Python, JavaScript, TypeScript, C++, C#, SQL, HTML, CSS

**Frameworks & Tools:** React, Flask, Tailwind CSS, Vite, SQLite, OpenCV, TensorFlow

**General Computing:** Hardware Knowledge, Database Management, Algorithms, Data Structures, AI

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## COMPUTER SCIENCE PROJECTS

### AI Video Rater

- Developed an automated video evaluation tool using Python and OpenCV to assess video quality based on blur detection.
- Extracted and transcribed audio to evaluate clarity, applying NLP-based heuristics to score audio quality.
- Integrated DeepSeek AI to analyze transcript content and generate an overall score with supporting feedback.
- Combined multiple weighted scores to produce a comprehensive rating system, displayed with detailed analytics and AI commentary.

### Personal Portfolio Website

- Designed and built a fully responsive personal website using Vite, React.js, and Tailwind CSS, optimized for both desktop and mobile.
- Added gamified features like a projectile-dodging mouse game with anti-cheat protection.
- Implemented interactive components including a timer, to-do list, tic-tac-toe(ultimate as well) game, and an Easter egg Pokémon tracker featuring all 1025 Pokémon with persistent local storage and shinies.
- Included dark/light mode support and an engaging UI with animated elements.

### Chipmunk – 3rd Place, Hacklahoma 2025

- Created an AI-powered presentation tool focused on accessibility and user convenience.
- Enabled slide navigation through real-time hand tracking with TensorFlow, integrated live automatic subtitles using Web Speech API, and implemented automatic session recording.
- Built using React and JavaScript, the project was recognized for its innovation and user-friendly interface at Hacklahoma 2025 and won over 1000 dollars worth of prizes.

### Matchmaking Discord Bot - Artistry Network

- Developed an automated matchmaking bot using Discord.js and SQLite to manage a real-time queue and user registration system.
  - Designed and implemented dynamic commands for updating user data, declaring winners, and adjusting ranks and points.
  - Automatically created duel channels, paired users, timed each match, and closed the channel.
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## ORGANIZATIONS

- Association for Computing Machinery, UT Dallas
- Codeburners, UT Dallas

August 2023 - Present

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## HOBBIES

Video Editing, Playing Pokemon, Losing at Chess, Swinging Around Big Swords, and Baking