

# Pranavsai Gandikota

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## TECHNICAL SKILLS

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

**Frameworks / Libraries:** React, React Native, TailwindCSS, Supabase, Appwrite

**AI / ML:** Google Gemini, GPT, LLaMA, PyTorch, TensorFlow.js, Transformers, Hugging Face, OpenCV, Mediapipe

**Tools:** Git/GitHub, Conda, Expo, NativeWind, Unity, Blender, Figma, Canva, Premiere Pro

## EDUCATION

### University of Central Florida

Orlando, FL

*Bachelor of Science in Computer Science — GPA: 4.0*

Aug. 2024 – May 2028

- Organizations: KnightHacks (Design Team, Kickstart), Indian Student Association (Director), SHPE, SASE
- Achievements: President's Honor Roll Fall 2024 & Spring 2025, Honor Society and SCLA Honor

## EXPERIENCE

### Supplemental Instruction (SI) Leader - Computer Science 1

Aug. 2025 – Present

*Student Academic Resource Center (SARC), UCF*

Orlando, FL

- Leading **3+** weekly peer-led SI sessions open for **100+** students in the Computer Science 1 course.
- Helping students understand data structures and algorithms concepts in C to improve academic performance.

### Undergraduate Research Assistant

Sep. 2024 – Nov. 2025

*ISUE Lab (AI/ML - VR and Human Computer Interaction), UCF*

Orlando, FL

- Contributed in streamlining a user-driven text-to-3D generation pipeline.
- Co-authored related works in SIGGRAPH paper submission for 3D Scene Generation from natural language.
- Implemented QLORA fine-tuning of Llama and weighted use of models for optimization of survey LLM.
- Conducted user studies for the VR Sensor Awareness project.

### Web Design and 3D Animation - KnightHacks

Sep. 2025 – Present

*KnightHacks, University of Central Florida*

Orlando, FL

- Designing the official KnightHacks website UI/UX and creating 3D animations for UCF's largest software development organization with **500+** members.

## PROJECTS

### ReVision – Shell Hacks 2025 | Google Gemini, Google Vision, React, Flask, Supabase

- Developed a real-time AI tutor that watches over while you solve problems on a whiteboard from uploaded question sets. Worked on implementing Supabase and connecting Gemini Vision with Google Vision OCR for realtime whiteboard recognition.

### Vision – Knight Hacks VII Hackathon 2024 (Honorable Mention Best Overall) | Python, OpenCV

- Created application enabling users with limited mobility to draw on a virtual canvas hands-free using eye tracking (MediaPipe + OpenCV) and voice commands (SpeechRecognition).

### Freedom Finances – Shell Hacks 2024 | ReactJS, Bootstrap, Figma

- Designed and implemented the frontend for a debt management website which uses GPT-3.5 and the Plaid API to analyze bank statements and deliver personalized debt management recommendations.

### NextFlix | React Native, Expo, Appwrite, TMDB API, NativeWind

- Developed a mobile movie discovery app with browsing, trailers, and personalized watchlist features.
- Integrated TMDB API for real-time movie data and Appwrite for secure authentication and database storage.

### Humanotone | React.js, TensorFlow.js, Mediapipe, Tone.js

- Created interactive web musical instrument that converts face movements and hand gestures into real-time sound.
- Combined TensorFlow.js and Mediapipe for gesture and face recognition with Tone.js for audio generation.

### Exodus – NSS Space Settlement Contest | Research, Blender

- Authored a **50**-page research paper on sustainable space habitation.
- **Won 1st place** among **17,000+** students (**3,000+** entries) from **22** countries in NSS Space Settlement Contest.
- Presented the research paper to industry leaders at the **International Space Development Conference 2022**.