

Mark Anjoul

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EDUCATION

University of South Florida

Tampa, FL

Bachelor of Science, Computer Science – GPA: 3.51

Jan 2025 – May 2027

- **Honors & Awards:** Tau Sigma National Honor Society
- **Relevant Coursework:** Data Structures & Algorithms, Program Design, Computer Organization, Discrete Structures

EXPERIENCE

Undergraduate Researcher

Jan 2026 – Present

RARE Lab – University of South Florida

Tampa, FL

- Developing a social robot by integrating speech-to-text, LLM reasoning and text-to-speech, resulting in a turn-based conversational system.
- Designing and implementing real-time HRI pipelines, enabling synchronized face recognition, live speech input, and responsive dialogue.

Key Lead

Feb 2025 – Present

Hollister

Wesley Chapel, FL

- Contributed to a 3% year-to-date sales increase (\$70K on \$3.1M revenue) by driving customer engagement, supporting floor leadership, and optimizing in-store execution.

PROJECTS

App Nest | *Swift, SwiftUI, iOS*

In Progress

- Building a SwiftUI-based iOS application that centralizes job and internship applications by combining manual input with AI-assisted email parsing, resulting in improved visibility and organization of application progress.

Hit Song Predictor | *Python, scikit-learn, pandas*

Jan 2026 – Feb 2026

- Developed logistic regression classifier to predict hit songs from 2,000+ tracks by engineering audio features and optimizing hyperparameters via GridSearchCV, enabling data-driven playlist curation strategies.
- Analyzed feature importance through coefficient interpretation and odds ratios, discovering danceability and energy increase hit probability by 2.5x, and delivered actionable insights with 5 professional visualizations (ROC curves, confusion matrices) for music recommendation optimization.

NoteWeb | *Python, LLaMA 3, Ollama*

Jul 2025 – Aug 2025

- Built a local-first Retrieval-Augmented Generation (RAG) system that performs semantic search across PDFs using embeddings, optimized chunking, and a custom vector database pipeline to deliver fast, accurate retrieval.
- Enhanced contextual Q&A by integrating LLaMA 3 via Ollama, enabling grounded multi-file reasoning, conversational follow-ups, and scalable caching for efficient end-to-end inference.

Groov | *Swift, UIKit, Last.fm API*

Jul 2025 – Aug 2025

- Built a mobile app as a final project for iOS101 course that integrates Last.fm APIs to fetch and display live album metadata and cover art while handling JSON parsing and asynchronous API calls.
- Implemented album rating, to-listen lists, and data persistence using UIKit, Storyboards, and modular view controllers to manage state across the app.

VOLUNTEERING

TechX (IEEE-CS USF Branch)

November 2025

- Collaborated with IEEE-CS organizers to facilitate a university-wide technology conference attended by 500+ students and professionals, and assisted with check-ins and food service to ensure a smooth attendee experience.

TECHNICAL SKILLS

Programming Languages: C, Swift, Python, C++, Java

Frameworks & Libraries: UIKit, SwiftUI, Scikit-learn, NumPy, pandas, Matplotlib

Tools & Platforms: VSCode, Xcode, Jupyter Notebook, Git, GitHub, Linux, Postman