

Nicholas Ackley

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EDUCATION

B.S. Computer Science The University of Texas at Dallas
WORK EXPERIENCE

Expected **Graduation:** May 2026

Traver Connect - Software Engineer

May 2023 - August 2025

- Optimized RESTful API's for lead and appointment data, reducing average API response time **by 20%** by caching, query optimization, and asynchronous processing
- Deployed a dynamic user dashboard that retrieved backend data from API's that displayed and filtered the data to the front end
- Developed **RESTful APIs** with **Node.js**, organizing and optimizing the backend architecture to streamline data flow; actively participated in team code reviews, updating documentation, and system design.
- Used Figma to design and structure frontend component layouts, ensuring consistent UI organization and seamless handoff for implementation.
- Refactored and migrated legacy frontend components into modern TypeScript frameworks, enhancing code reliability, modularity, and performance.

PROJECTS

Hackathon - Toyota (HackUTD)

- Developed and trained a **Multinomial Logit regression (MNL) model** in Python to predict user car preferences based on vehicle attributes and demographic factors.
- Implemented maximum likelihood estimation (MLE) with L2 regularization to learn feature coefficients influencing car choice (e.g., price, speed, fuel type).
- Automated the full ML pipeline — from data preprocessing to model training, evaluation, and deployment-ready saving using scikit-learn and SciPy.

OKC Thunder - Technical Project

- A full-stack player analytics web app deployed on Railway with **OKC Thunder Data** using Django REST Framework, Angular, and PostgreSQL, enabling retrieval and visualization of player performance.
- Implemented data ingestion and aggregation logic in Django REST Framework to compute player averages, efficiency metrics, and rank comparisons dynamically from the `/api/v1/playerSummary/{playerID}/` endpoint.
- Deployed the application for public access, backend for handling token refresh and API requests for uninterrupted streaming.

Personal Spotify Wrapped

- Developed a music player with live audio streaming using **React**, **Node.js**, **Firebase**, and the Spotify Web Playback SDK.
- Integrated Spotify Web API endpoints to fetch and visualize user analytics, including playback activity, top tracks, average BPM, and social data (followers and following).
- Normalized a PostgreSQL database to store raw player event data (shots, passes, turnovers) and aggregate summaries for tracking.

LEADERSHIP

Executive Member | Delta Tau Delta

Current

- Facilitated partnership with sponsors and philanthropy, ex: JDRF and Red Bull.

Member | Artificial Intelligence Society

Current

- An organization that hosts workshops and group projects around machine learning and artificial intelligence.

Member | Student Game Developer Association

Current

- Member of a student club focused on collaboration, gaming panels, and discussions about game development and industry trends.

SKILLS

TECHNICAL SKILLS: Java, C++, JavaScript, SQL, Python, REST API, JIRA, Git, Bitbucket, Figma, VSCode