

# Nicholas Ackley

**Phone:** (817) 944-7543 | **Email:** [nya210002@utdallas.edu](mailto:nya210002@utdallas.edu) | **Github:** <https://github.com/nicholas-ackley>  
**LinkedIn:** [www.linkedin.com/in/nicholas-ackley](https://www.linkedin.com/in/nicholas-ackley)

## EDUCATION

---

**B.S. Computer Science** The University of Texas at Dallas

**Expected Graduation:** May 2026

## WORK EXPERIENCE

---

### 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