

Nicholas Ackley

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EDUCATION

GPA 3.5

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

Exp. **Graduation:** December 2026

WORK EXPERIENCE

Traver Connect - Software Engineer

May 2023 - August 2023

- 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.
- Optimized database schemas and data migration scripts using SQL, enhancing data integrity and query performance for critical reporting features.

Mckesson - Backend Engineer

May 2024 - August 2025

- Designed and maintained automated CI/CD data pipelines to ingest, validate, and deploy healthcare and insurance datasets, reducing manual processing and improving data delivery reliability.
- Implemented data validation, logging, and error-handling mechanisms to ensure compliance with healthcare data standards and improve system stability.
- Developed **data quality validation, logging, and monitoring** to detect anomalies early and improve trust in downstream analytics.

PROJECTS

Hackathon - Toyota (HackUTD)

- Developed and trained a **Multinomial Logit regression (MNL) model** in Python to predict user car preferences based on vehicle preferences, demographic factors, and personality traits.
- Implemented maximum likelihood estimation (MLE) with L2 regularization to learn feature coefficients influencing car choice (e.g., price, speed, fuel type).

Automation & Validation Tool

- A Python based automation tool to validate configuration files and system inputs, detecting missing fields, invalid values, and unsafe changes before deployment.
- Integrated the validation tool into CI/CD pipelines using GitHub Actions, automatically blocking pull requests that failed defined reliability and security checks.
- Designed configurable validation rules and structured failure reporting, enabling developers to catch issues early and reduce downstream CI/CD and deployment failures.

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.

TECHNICAL SKILLS: C#, Java, C++, JavaScript, SQL, Python, JIRA, Git, Azure, AWS, .NET