

# Ethan Childs

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## EDUCATION

### Texas Tech University

Lubbock, Texas

*Master of Science in Computer Science (Accelerated Program), GPA: 4.0*

Expected Graduation: May 2027

*Bachelor of Science in Computer Science, Minor in Mathematics, GPA: 3.6*

Expected Graduation: May 2026

## PROFESSIONAL EXPERIENCE

### AI Research Data Analyst

January 2025 – Present

*NemaLife Inc.*

Lubbock, Texas

- Validated and corrected AI model predictions by comparing AI outputs against video data, **reducing classification error from  $\pm 20$  to  $\pm 2$**  through iterative relabeling.
- Performed **video quality checks to build training datasets**, identifying and excluding artifacts such as debris and air bubbles that could negatively impact model performance.
- Designed and maintained structured experimental datasets in **Excel**, supporting downstream **statistical analysis** of organism lifespan and behavioral metrics.
- Collaborated within a **cross-functional team of 10 researchers and analysts** to support data validation workflows and consistent labeling standards across experiments.
- Contributed to an AI-based platform that **automates behavioral monitoring**, minimizing reliance on human observation during extended experiments.

### Data Science Intern

May 2025 – August 2025

*AthletIQ, LLC*

Remote

- Developed an **ETL Python pipeline** that transformed raw AI-generated Excel shot-tracking files into clean, analysis-ready datasets, improving data usability and reliability.
- Utilized **SQL** to query, filter, and aggregate structured datasets, enabling feature extraction and quantitative evaluation of shooting performance.
- Documented and communicated how AI-generated data was transformed by the ETL pipeline into simplified, user-ready metrics that supported product features and decision-making.

## PROJECTS

### AI Contract Analysis Platform

*Python, Azure, SQL, React.js*

- Developed an **AI-based system** to analyze contracts and terms of service, generating structured reports that highlight **binding clauses and potential risk areas**.
- Designed and implemented a **cloud-based architecture on Microsoft Azure** for scalable data processing, model deployment, and secure document handling.
- Enabled users to upload contracts through a **web-based interface**, with AI-generated analysis returned in an interpretable report format.
- Built a web application that allows users to interact with AI outputs and review extracted contract insights.

## TECHNICAL SKILLS

**Programming Languages:** Python, SQL, R

**Cloud Platforms:** Microsoft Azure, AWS

**Analytics Tools:** Power BI, Tableau, Excel, Microsoft Office

**Relevant Coursework:** Intelligent Systems, Reinforcement Learning, Engineering Statistics, Database Systems

## INVOLVEMENT

### Kappa Sigma Fraternity

*Philanthropy Chairman*

- Directed **100+ members** in organizing and executing fundraising events, strengthening partnerships with campus groups, and contributing funds to community-based initiatives.