

# Preston Bied

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## EDUCATION

**Drexel University, College of Computing & Informatics**

September 2025 - Present

*Masters (MS) in Machine Learning and Artificial Intelligence*

- Participated in the Computational Concentration, a theoretical/technical path designed for students interested in developing their own AI / ML algorithms or augmenting existing ones

**University of Texas at Austin, McCombs School of Business**

January 2025 - July 2025

*Post Graduate Online Program in Artificial Intelligence and Machine Learning: Business Applications*

- Specialized in Machine Learning, Deep Learning, Generative AI, and Model Deployment. Hands-on experience with tools like TensorFlow, Python, and NLP libraries

**Texas A&M University**

August 2020 - December 2024

*Bachelor of Science in Computer Science, Minor in Mathematics*

- GPA: 3.527, Engineering Honors Program
- Studied abroad in Barcelona, Spain and Singapore, fostering strong cultural adaptability and global perspective

## PROFESSIONAL EXPERIENCE

**Mathnasium**

April 2025 - Present

*Lead Instructor*

Lakeway, TX

- Supervised and monitored junior instructors, providing training on teaching techniques, student assessment protocols, and center operations to maintain consistent education quality
- Managed daily center operations including student check-ins, progress tracking, and parent communication to ensure smooth facility operations and positive learning environment

**Texas A&M University**

August 2023 - June 2024

*Mathematics Teaching Assistant*

College Station, TX

- Evaluated and provided detailed feedback on homework assignments for 120+ students across 3 sections of Linear Algebra
- Created comprehensive solution guides that improved student comprehension of complex matrix operations and vector spaces

**MDB Capital Group**

June 2021 - June 2023

*IP Analyst Intern*

Dallas, TX and Managua, Nicaragua

- Composed IP Landscape & Prosecution History Reports using PatentVest, enabling informed investment decisions on early-stage technology companies
- Conducted Financial & Technical Due Diligence to assess market viability, competitive landscapes, and potential returns for clients
- Collaborated Cross-Functionally with senior analysts, gaining international experience at the Managua office while refining global IP research strategies

## LEADERSHIP & ACTIVITIES

**Ipelint**

August 2024 - December 2024

*Capstone Project*

- Developed a Multi-Model AI Solution integrating CPC classification, keyword extraction, and prior art search, cutting manual patent analysis time
- Optimized Classification of 200K+ patents with transformer-based NLP and Random Forest, processing each in ~12ms and delivering sub-2-minute overall runtime
- Streamlined Prior Art Retrieval by combining patent text analytics with external APIs (USPTO, IEEE) for real-time similarity scoring
- Presented the project at a capstone expo and gave a formal presentation to an industry panel

**Alpha Sigma Phi, Texas A&M**

August 2021 - May 2024

*Director of Scholarship*

- Coordinated a chapter-wide academic challenge that incentivized members to achieve personal GPA goals: 75% of participants reported improved study habits, leading to a measurable increase in overall chapter GPA
- Coordinated weekly executive board meetings and introduced a peer-mentoring program to sustain academic momentum

## SKILLS

- **Programming Languages:** Python, C++, SQL, JavaScript
- **ML:** Scikit-Learn, Keras, PyTorch, TensorFlow, XGBoost
- **Data:** Matplotlib, Seaborn, Pandas, NumPy
- **Software:** Git, Docker, AWS
- **Math:** Calculus I-III, Linear Algebra, Statistics, Abstract Algebra