

Preston Bied

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Austin, TX

PROFESSIONAL EXPERIENCE

Capstone Project | Ipelint | August 2024 – December 2024

- 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.

Mathematics Teaching Assistant | College Station, TX | August 2023 – June 2024

- 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 | Dallas, TX & Managua, Nicaragua | June 2021 – June 2023

- 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.

ACTIVITIES

Alpha Sigma Phi | Texas A&M | August 2021 – May 2024

Director of Scholarship | May 2022 – May 2024

- Coordinated a chapterwide 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++, Java, JavaScript, Haskell, Prolog
- **AI/ML:** PyTorch, TensorFlow, Keras, Scikit-Learn
- **Data Analysis:** NumPy, Pandas, Matplotlib, Seaborn
- **Mathematics:** Statistics, Linear Algebra, Real Analysis, Abstract Algebra

EDUCATION

The 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.
- Received hands-on mentorship and worked on 8 projects & 40+ case studies.

Texas A&M University | College Station, TX | August 2020 – December 2024

Bachelor of Science, Computer Science with Mathematics minor

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