

Jeremiah Crowell

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PROFESSIONAL EXPERIENCE

John Deere | *Software Developer*

Dec. 2022 – Current

- Built and deployed a predictive model using LightGBM for automated claims classification, increasing processing speed and accuracy for the claims team.
- Modernized our dealers' parts ordering process by replacing the legacy system with a dynamic React-based web application, integrated with the SAP backend through new Spring Boot-based microservices, providing seamless functionality for order tracking, claim creation, and returns.

Midland States Bank | *Data Engineering Intern*

May 2022 – Aug. 2022

- Optimized an hourly analytics data pull by replacing an inefficient SQL query with a set of sources in our EDL system.
- Developed data mappings as needed to meet the analysis needs of the bank, maintaining SOX-compliance with strict data governance policies and accurate reporting standards

Juni Learning | *Computer Science Tutor*

Sept. 2020 – May. 2021

- Tutored 6+ students per week on a personal basis. Developed strong relationships, and encouraged accelerated learning by carefully challenging students.
- Planned daily lessons and weekly schedules for each individual student. Flexibility in taking on new students and changing schedules on a weekly basis.

EDUCATION

University of Illinois Urbana-Champaign

Master of Science, Computer Science in Data Science

Graduated Winter 2024

GPA: 4.0

University of Illinois Urbana-Champaign

Bachelor of Science, Statistics & Computer Science

Graduated Winter 2022

GPA: 3.6

TECHNICAL SKILLS

Languages: Python, JavaScript/TypeScript, Java, C/C++, ABAP, HTML/CSS

Technologies/Frameworks: Pandas/NumPy/scikit-learn, React, TailwindCSS, Flask, Spring

PERSONAL PROJECTS

Boardally

- Built a full-stack RAG web app using Next.js, AWS (S3, DynamoDB), and the Gemini API to answer board game rulebook questions
- Integrated user authentication, per-user rate limiting, and Stripe integration for paid tiers. Coordinated backend logic with server actions and API routes.

Explainable Sentiment Analysis Application

- Enhanced the interpretability of a pretrained sentiment analysis model on a set movie reviews by highlighting critical sentences using leave-one-out embeddings, providing insights into review sentiment drivers.

Time-Series Modeling and Clustering for Sales Analysis

- Analyzed the time-series data of annual sales across grocery store departments using a splines model. Applied clustering on basis function parameters to identify patterns and trends, providing actionable insights with predictive applications.