

TRUSTAN PRICE

217-954-8537 | trustanprice@gmail.com | LinkedIn | GitHub

EDUCATION

University of Illinois Urbana-Champaign

Bachelor of Science in **Statistics**, Minors in **Computer Science** and Data Science

Champaign, IL

Expected December 2025

SKILLS

Languages: Python, C++, JavaScript, C#, Java, SQL, R

Technologies: React, Node.js, Flask, REST APIs, FastAPI, Git, GitHub Actions, Docker

BI & Analytics: SQL, Tableau, Power BI, AWS Grafana

Machine Learning: TensorFlow, CNNs, NLP, Model Deployment, Inference Optimization

DevOps & Infra: Azure DevOps, CI/CD, Prometheus, Grafana, MRTK3 (Unity), C#.NET

EXPERIENCE

MLOps Intern – Applied Analytics

May 2025 – Aug 2025

Caterpillar Inc.

Chicago, IL (Hybrid)

- Built end-to-end observability stack using CloudWatch, Prometheus, and Grafana for deployed ML pipelines.
- Maintained and expanded Azure DevOps CI/CD pipelines to support scalable model testing and release.
- Collaborated with multiple dev teams through Git pull requests, Agile sprint reviews, and issue triage.
- Developed RESTful APIs and performed microservice integration testing across environments.
- Applied feature flagging and testing workflows to mitigate deployment risks and monitor system behavior.

Software Engineer Intern - Data Science

May 2024 – May 2025

State Farm

Bloomington, IL (Hybrid)

- Developed a CNN to classify car seat photos, enabling real-time safety classification in backend services.
- Created, labeled, and validated a balanced photo dataset from scratch to simulate production input streams.
- Built data pipelines with Pandas and NumPy for preprocessing and model analysis.
- Coordinated feature testing with QA and contributed to internal documentation and usage guidelines.

AI Research Assistant - Mixed Reality

Feb 2025 – Sep 2025

HXRI Lab, University of Illinois Urbana-Champaign

Champaign, IL

- Built a HoloLens-compatible Unity app to collect real-time interaction data from procedural medical simulations.
- Designed spatial UI using UXML + C# and implemented dynamic visual cues to reflect tool positioning and usage.

PROJECTS & AWARDS

NBA Team Failure Prediction Model — Python, Pandas, Scikit-Learn, Streamlit, Excel

Sep 2025 – Present

- Developed a predictive model to forecast NBA team wins and losses across multiple seasons.
- Designed a failure detection framework that triggers when teams lose games they are statistically expected to win, leveraging strength of schedule, win probability baselines, and adjusted performance indicators.
- Scraped, merged, and cleaned multi-season datasets from Basketball Reference and NBA.com

AI Academic Advisor — React, Flask, Python, BeautifulSoup, NLP

Dec 2024 – March 2025

- Developed a full-stack advising tool with React UI and Flask APIs, enabling students to generate course schedules and explore majors in real time.
- Built NLP keyword extraction to translate open-text student responses into major and course matches, improving accuracy and personalization of recommendations.
- Engineered scalable data ingestion and schema design for course catalog integration, ensuring consistent, reusable data pipelines across recommendation flows.

Dementia Detection via MRI — TensorFlow, CNN

May 2024 – Aug 2024

- Built an interpretable CNN for 4-class dementia staging; tracked performance with recall, F1, and ROC-AUC.
- Engineered a preprocessing pipeline and reproducible training/evaluation notebooks.

E-commerce BI Warehouse (Coming Soon) — DuckDB, SQL, dbt, Metabase

Planned Fall 2025

- Will model Olist marketplace data using dbt + DuckDB, then build dashboards to track cohort retention, LTV, and delivery KPIs using Metabase.