Trustan Price

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

Education

University of Illinois Urbana-Champaign — Champaign, IL
Master of Computer Science (MCS), Part-Time Program — Expected Spring 2027

University of Illinois Urbana-Champaign — Champaign, IL
Bachelor of Science in **Statistics**; Minors in **Computer Science** and Data Science — Expected December 2025

Skills

Languages: Python, SQL, R, JavaScript, CSS, HTML, C++, Java
Libraries: Pandas, NumPy, Scikit-Learn, Matplotlib, Boto3, TensorFlow, PyTorch
Frameworks & Tools: CI/CD, Azure DevOps, Git, Flask, React.js, Streamlit, Vercel, Power BI, Tableau, Grafana
Cloud & Platforms: AWS (S3, Lambda, EC2, SageMaker, CloudFormation, API Gateway)

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.
- Applied feature flagging and testing workflows to mitigate deployment risks and monitor system behavior.

AI & Mixed Reality Research Assistant — Feb 2025 – Sep 2025
Human-XR Interaction (HXRI) Lab, University of Illinois Urbana–Champaign — Champaign, IL

- Developed a Mixed Reality simulator for Neonatal Needle Thoracentesis using Unity and MRTK3 for HoloLens.
- Implemented data collection pipeline integrating AI-driven motion tracking and computer vision segmentation.
- Collaborated with medical faculty to design procedural feedback systems for skill assessment.

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.

Projects

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.

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 — Pandas, Tensorflow, Statistical Analysis — 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.

Clubs

- **Sports Analytics Society** — Lead Machine Learning Engineer — Fall 2025 – Present
- **Black, Indigenous, and Latino in Tech (B[U]ILT)** — Member — Fall 2024 – Present
- **National Society of Black Engineers (NSBE)** — Member — Fall 2022 – Present
- **Sports Analytics by Minorities** — Founder & President — Fall 2022 – Spring 2024