Trustan Price

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Education

University of Illinois Urbana-Champaign — Champaign, IL
Master of **Computer Science** — Expected Spring 2027

University of Illinois Urbana-Champaign — Champaign, IL
Bachelor of Science in **Statistics**; Minors in **Computer Science** and Data Science — 2022 – 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

Software Engineer Intern — May 2025 – Aug 2025
Caterpillar Inc. — Chicago, IL

- Achieved 100% audit test coverage for a decades-old production codebase, enabling safe modernization and long-term maintainability.
- Developed and maintained corporate-scale CI/CD pipelines in Azure DevOps with weekly user stories and production push requests.
- Built observability dashboards with CloudWatch, Prometheus, and Grafana to monitor deployed ML systems.

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 clinical training simulator for a real medical client using Unity and MRTK3 on HoloLens.
- Integrated AI-driven motion tracking and computer vision pipelines with live feedback from medical professionals.

Software Engineer Intern — May 2024 – May 2025
State Farm — Bloomington, IL

- Developed and productionized a CNN-based car seat classification system deployed for direct customer use.
- Built and validated a labeled image dataset from scratch, enabling scalable model training and real-time inference.
- Implemented preprocessing and analytics pipelines with Pandas and NumPy to support production ML workflows.

Projects

NBA Team Failure Prediction Model — Python, Pandas, Scikit-Learn, Streamlit, Excel — Sep 2025

- Built a multi-season NBA win/loss prediction model achieving 90% accuracy on a 5-game failure threshold.
- Designed a failure detection framework to flag statistically unexpected losses using strength of schedule, win probability baselines, and adjusted performance metrics.

AI Academic Advisor — React, Flask, Python, BeautifulSoup, NLP — Dec 2024 – Mar 2025

- Developed and deployed a full-stack AI advising platform serving tens to hundreds of users for major selection and schedule planning.
- Implemented NLP-driven keyword matching and scalable data pipelines to deliver personalized course and major recommendations in real time.

ML Dementia Classification — Pandas, TensorFlow, Statistical Analysis — May 2024 – Aug 2024

- Built an interpretable CNN with a self-engineered preprocessing pipeline for 4-class dementia staging, achieving 95% classification accuracy.
- Presented project findings to the Dean of the College of Liberal Arts & Sciences at UIUC.

Clubs

- **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 Society** — **Lead Machine Learning Engineer** — Fall 2025
- **Sports Analytics by Minorities** — **Founder & President** — Fall 2022 – Spring 2024