Neel Panging

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EXPERIENCE

realtor.com   **August 2025 ‑ Present**
Senior Machine Learning Engineer
Austin, TX (Hybrid)
- Engineered and deployed **Metaflow ML pipelines** with **Argo/Outerbounds CI/CD**, accelerating model iteration cycles and reducing deployment friction.
- Built an **XGBoost ranking model** optimizing home search relevance, balancing **leads, property views, and CTR**, increasing high-quality lead conversion by ~X% (estimate if you have).
- Experimented with and developed infrastructure for **AI-assisted coding tools** and modular sub-agent workflows, cutting prototyping time and improving feature engineering productivity.

Transfix ‑ Digital Freight Marketplace   **July 2023 ‑ August 2025**
Data Scientist II   Austin, TX (Remote)
- Developed bottom-up forecasting model for 18,000+ freight lanes, improving pricing accuracy and strategic decision support.
- Reduced win-rate bias by 80% in core pricing algorithm, strengthening marketplace reliability.
- Improved user engagement by 45% (reducing empty recommendations) via enhancements to Transfix's freight recommender platform. Revised algorithms to serve new/infrequent users beyond 60-day activity thresholds.
- Optimized MLOps: Deployed models on AWS SageMaker and Argo. Managed workflows via Airflow DAGs and standardized deployments using Docker, GitHub, and CI/CD pipelines.

Dell Technologies   **June 2022 ‑ July 2023**
Data Scientist I   Austin, TX
- Saved ~$1.2M annually by building ensemble model (CatBoost + autoregression) to predict server backup failures.
- Increased customer support efficiency by 18% using BERT-based case summarization and classification.
- Improved service workload planning by 7% via product-level demand forecasting (Prophet).

June ‑ Aug 2020 | May ‑ Aug 2021
Data Science Intern   Remote
- Forecasted demand for 10+ enterprise products to support call-center and dispatch planning. (2021)
- Built ensemble time-series models (Prophet, SARIMA, ETS) to improve operational accuracy. (2020)

SKILLS

Languages and Tools: Python, SQL, R
Data Analysis & Visualization: NumPy, Pandas, Plotly/Dash, Seaborn, Streamlit, Matplotlib, Looker
Machine Learning: Scikit-Learn, TensorFlow, Keras, PyTorch, XGBoost, LightGBM, Metaflow
Data Science & Modeling: Classification, Regression, Clustering, Deep Learning, Reinforcement Learning, Time Series Analysis, NLP, Bayesian Networks, Dimensionality Reduction, Feature Engineering
Cloud: AWS (Sagemaker, Bedrock, S3, EC2), Snowflake, DBT, Docker, Airflow, Supabase

EDUCATION

Georgia Institute of Technology - MS Computer Science | Machine Learning Specialization   **2024**
The University of Texas at Austin - BS Applied Mathematics | Minors in Computer Science and Statistics   **2022**