

TECHNICAL SKILLS

Programming

Python (Expert), SQL, TypeScript, JavaScript, R, C++, HTML/CSS

Deep Learning

PyTorch, TensorFlow/Keras, Spatial-Temporal Transformers, GRU/RNN, 3D CNNs, Perceiver IO, Geometric Attention Networks

ML & Data Science

scikit-learn, XGBoost, LightGBM, CatBoost, Pandas, NumPy, Advanced Ensemble Methods, Feature Engineering

Cloud & Infrastructure

AWS (Certified), Multi-GPU Training, Mixed Precision (FP16), PostgreSQL, S3, Weights & Biases

Homelab & Systems

Proxmox VE, pfSense, Ubuntu Server, n8n Automation, RAG Pipelines, 10Gb Networking, VLAN

Web & Deployment

Flask, FastAPI, Streamlit, React/Next.js, Docker, CI/CD, GitHub Actions

Specializations

Trajectory Prediction, 3D Medical Imaging (DICOM/NIfTI), Computer Vision, NLP, Multi-modal AI, Test-Time Augmentation

EDUCATION

MS, Data Science & Analytics

Western Governors University  
Aug 2024 - Aug 2025  
• Healthcare AI Capstone (Production)  
• NSLS & Student Insights Council

BS, Data Analytics

Western Governors University  
Mar 2023 - Sep 2024  
• NFL Prediction Capstone  
• NSLS Member

PROFESSIONAL SUMMARY

Data Science professional with MS in Data Science and proven expertise in competitive machine learning and deep learning systems. **Kaggle Bronze Medalist** in NFL Big Data Bowl 2026 (74th open / 94th closed of 1,134 teams) with 847+ experiments across 15+ neural network architectures. Trained 105 3D medical imaging models and deployed production healthcare AI achieving 93.8% accuracy. Expert in spatial-temporal modeling, trajectory prediction, ensemble methods, and multi-modal AI. Strong foundation in systematic ML experimentation, advanced feature engineering, and production deployment.

FEATURED DATA SCIENCE PROJECTS

NFL Big Data Bowl 2026 - Kaggle Bronze Medal



Deep Learning Player Trajectory Prediction | 74th open / 94th closed of 1,134 teams  
[github.com/XxRemstelexX/NFL-Big-Data-Bowl-2026-](https://github.com/XxRemstelexX/NFL-Big-Data-Bowl-2026-)

- **Bronze Medal** in prestigious Kaggle competition predicting NFL player trajectories from tracking data
- Conducted systematic exploration of 847+ experiments across 15+ neural network architectures
- Best single model: 6-Layer Spatial-Temporal Transformer achieving 0.547 Public LB score
- Best ensemble: 3-model blend (ST Transformer + CNN + GRU) achieving 0.540 Public LB with architecture diversity
- Engineered 167 features including kinematics, ball-relative positions, temporal patterns, and geometric features with Voronoi tessellation
- Implemented novel geometric attention with spatial distance modulation and frozen encoder fine-tuning
- Utilized multi-GPU training, mixed precision (FP16), and test-time augmentation for +0.005-0.010 improvement

RSNA Intracranial Aneurysm Detection - Kaggle Competition

3D Deep Learning Medical Imaging | 105 Models Trained  
[github.com/XxRemstelexX/RSNA-Intracranial-Aneurysm-Detection-Kaggle](https://github.com/XxRemstelexX/RSNA-Intracranial-Aneurysm-Detection-Kaggle)

- Trained 105 deep learning models (21 architectures × 5 folds) for CT angiography aneurysm detection
- Tested 51 ensemble configurations; best ensemble META\_E\_top3\_weighted achieved AUC 0.8624
- Key discovery: Smaller models (SE-ResNet18) statistically outperform larger models on limited medical data (r=-0.42, p<0.01)
- Built complete pipeline: DICOM → NIfTI → ROI extraction → Training → Ensemble across 4 GPUs simultaneously
- Multi-label classification across 14 classes with severe class imbalance handling (1.2% to 42.8%)

## AS, IT / Programming

Clinton Community College

Jan 2022 - Dec 2022

- Data Analytics Certificate
- Phi Theta Kappa

## Diploma, IT / Programming

Clinton Community College

Jan 2021 - Dec 2021

- Phi Theta Kappa

## AA, Art Studies

Hawkeye Community College

Sep 2019 - Dec 2020

- Phi Theta Kappa

## Graphic Communications

Hawkeye Community College

Sep 1997 - May 1999

## CERTIFICATIONS

### Industry

- CompTIA Data+ (2024-2027)
- AWS Cloud Practitioner (2024-2027)
- CompTIA A+ (2023-2026)

### Udacity Nanodegrees

- Advanced Computer Vision & Deep Learning
- ML DevOps & Model Deployment
- Transformer Models & BERT
- GANs & Convolutional Neural Networks

## HONORS

- National Society of Leadership and Success
- Phi Theta Kappa Honor Society
- Eagle Scout (1995)

## Apollo Healthcare Connect

Production Multi-modal AI Healthcare Triage System | MS Capstone

[apollohealthcareconnect.com](https://apollohealthcareconnect.com)

- Built and deployed live production healthcare AI triage system with sub-second response times
- Achieved **93.8% combined multi-modal accuracy** and **98.0% burn classification accuracy**
- Implemented 5-model ensemble architecture combining DistilBERT (NLP) and CNNs (Computer Vision)
- Successfully handled extreme class imbalance (29.7:1 ratio) with advanced loss functions
- Built production pipeline with Flask API, AWS S3 integration, and comprehensive safety protocols

## Missing Persons Outlier Detection

Statistical Anomaly Detection for Trafficking & Organized Crime Analysis

[github.com/XxRemstelexX/missing-persons-outlier-detection](https://github.com/XxRemstelexX/missing-persons-outlier-detection)

- Analyzed 41,200 missing persons and unidentified bodies cases across 101 years (9,204 county-decade combinations)
- Identified I-35 corridor trafficking pattern with +10.80 cases/year acceleration
- Discovered Pima County, AZ anomaly: 44.75 standard deviations above baseline (529 bodies)
- Built 7-page interactive Streamlit dashboard with geospatial visualization and 5-year forecasting
- Validated methodology against known serial killers (Ridgway: 4.38 $\sigma$ , Gacy: 1.34 $\sigma$ )

## NFL Rookie Wide Receiver Performance Prediction

Advanced ML Analysis with Feature Optimization | BS Capstone

[github.com/XxRemstelexX/NFL\\_Rookie\\_WR\\_1K\\_Analysis](https://github.com/XxRemstelexX/NFL_Rookie_WR_1K_Analysis)

- Developed predictive model achieving **90.9% ROC AUC** on future data validation for 1000+ yard seasons
- Reduced overfitting gap from 18.5% to 0.4% (97.8% reduction) through feature optimization (46  $\rightarrow$  20 features)
- Implemented temporal validation strategy ensuring model generalization to future NFL seasons
- Created production-ready ensemble model for NFL draft analysis with comprehensive data pipeline (2006-2024)

## AI Homelab & Active Memory Network

Multi-Tier AI Infrastructure | 10Gb Network + RAG Pipeline

[glennndalbey.com/infrastructure](https://glennndalbey.com/infrastructure)

- Designed and operate multi-tier AI homelab: **dual RTX 5090** training node + RTX 3090 Ti/3090 secondary node
- Built 256GB unified memory LLM inference cluster (2 $\times$  Ryzen AI Max+ 395) running Kimi K2, Qwen 3, GLM 4.6
- Implemented automated active-memory pipeline with n8n orchestration, RAG storage, and hot/warm/cold tiering
- Deployed Proxmox VE backbone with pfSense firewall, VLAN segmentation, and 10Gb networking (100TB+ storage)

# PROFESSIONAL EXPERIENCE

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## Freelance Data Science Consultant

*Thompson Parking & Mobility Consultants*

Current

- Provide data science and analytics consulting services for business intelligence initiatives
- Develop AI-powered Excel analytics platform enabling natural language data queries
- Design custom analytical solutions and machine learning models for client-specific challenges
- Support data-driven decision making through advanced analytics and predictive modeling

## Continuous Improvement Leader & Material Specialist

*John Deere, Waterloo Works & Ankeny Works*

2005-2020, 2021-Present

- Led CI Department as Representative and Wage CI Trainer, facilitating process improvement frameworks
- Developed comprehensive training curriculum for warehouse personnel, improving onboarding efficiency
- Designed and implemented the Zones Project, modernizing material flow training systems
- Led departmental CI mapping initiatives to improve operational efficiency and reduce cycle times
- Optimized material replenishment processes using bin methodology, reducing operational inefficiencies
- Managed supply chain logistics, vendor relations, and SAP-integrated inventory management
- Supported engineering teams in workflow re-splits and cycle time analysis for production optimization

## KEY ACCOMPLISHMENTS

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- **Kaggle Bronze Medal** - NFL Big Data Bowl 2026 (74th open / 94th closed of 1,134 teams)
- Conducted 847+ deep learning experiments across 15+ architectures with systematic hyperparameter optimization
- Trained 105 3D medical imaging models achieving AUC 0.8624 in ensemble configuration
- Built and deployed production healthcare AI achieving 93.8% accuracy with sub-second response
- Discovered smaller models outperform larger on limited medical data (statistically significant:  $r=-0.42$ ,  $p<0.01$ )
- Analyzed 41,200 missing persons cases identifying trafficking corridors at 44.75 $\sigma$  significance
- Achieved 90.9% ROC AUC on temporal validation for NFL rookie prediction with 97.8% overfitting reduction
- Published 15+ open-source projects on GitHub with comprehensive documentation