

Davis Byrd

AI/ML Engineer

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PROFESSIONAL SUMMARY

Results-driven IT professional with 10+ years in systems analysis, network infrastructure, and technical support. Skilled in troubleshooting, optimizing performance, and delivering stable, user-focused solutions. Currently transitioning into software and AI development, leveraging systems knowledge, problem-solving, and hands-on experience to build reliable, scalable AI solutions with Python, machine learning, and model deployment.

TECHNICAL SKILLS

Tools - Git, Jupyter Notebook, VS Code, Kaggle, Anaconda, Hugging Face

AI/ML - Supervised & Unsupervised Learning, Deep Learning, Convolutional Neural Networks (CNNs), Ensemble Methods, Transfer Learning, Model Optimization and Tuning, Natural Language Processing (NLP), Large Language Models (LLMs), Prompt Engineering, Generative AI

Languages/Libraries - Python, Java, C, C++, SQL, NumPy, Pandas, Matplotlib, Seaborn, Plotly, Scikit-learn, TensorFlow, Keras, PyTorch, OpenCV, Ultralytics YOLO, Natural Language Tool Kit (NLTK)

PROFESSIONAL EXPERIENCE

Systems Analyst/Administrator | Computer-Line, LCC | Lake Charles, LA

May 2015 - Present

- Delivered IT support for 10+ clients, resolving 15+ weekly requests across Windows/macOS environments, with a focus on efficient troubleshooting and automation of recurring issues
- Provided end-to-end support for hardware, software, and networking, resolving most client issues within 24 hours by leveraging diagnostic data and performance metrics
- Administered and maintained 150+ workstations across diverse environments, using RMM tools (LogMeIn) for proactive monitoring, data collection, and predictive maintenance
- Developed and optimized scripts (PowerShell, Python) to automate system monitoring, data extraction, and reporting, reducing manual workload and improving response time

TECHNICAL PROJECTS

RepVision | June 2025 | <https://github.com/Byrdman-dev/RepVision>

- Designed and implemented a computer vision system to automate exercise classification and repetition counting from video input, eliminating the need for manual tracking and establishing a foundation for future enhancements such as form evaluation.
- Engineered an end-to-end exercise analysis pipeline combining OpenCV for efficient video frame extraction and preprocessing, YOLOv11 for accurate exercise classification, and YOLOv11-Pose for precise keypoint detection and angle calculations. Currently extending the system to implement rep counting across all classified exercise types.

EDUCATION

Louisiana State University

January 2025 – June 2025

Immersive AI & Machine Learning program which utilizes active learning to gain proficiency in data technologies and tools including Python, Keras, and TensorFlow, and understanding of machine learning, deep learning, and data science processes.

McNeese State University

May 2023

Bachelor of Science in Applied Computer Science

Courses: Data Structures & Algorithms, Operating Systems, Database Systems, AI, Computer Networks, Software Engineering