# Quinn Meyer

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## EXPERIENCE

**Sustainment** Austin, TX (Remote)
Lead Data Scientist July 2023 – Present

- E2E lead data scientist for a $2 million advanced research and development software project leveraging state of the art AI to automate interpretation of engineering drawings.
- Data curation, model selection, hyperparameter tuning, performance optimization, and cloud deployment of various deep learning networks and frameworks such as OpenMMLab, Yolov8, ResNet, and PaddlePaddle.
- Implementing Classification, Object Detection, Segmentation, and OCR networks.
- Developed a Selenium web scraper to scrape hundreds of thousands of images directly to AWS S3 and performed EDA to filter messy data to prepare for training deep learning models.
- Implementing custom AWS Ground Truth labeler pipelines using Lambda with humans in the loop (Mechanical Turk) and semi-automated data labeling verification using Sagemaker SDK.
- Developing training and inferencing neural network pipelines on AWS cloud with hundreds of thousands of images using Sagemaker SDK connected to S3.
- Managing version control with GitLab, documenting research in Confluence, and owning project management using tools such as Jira and custom Google Sheets planner.

**Aptiv** Troy, MI (Hybrid)
Data Scientist - Camera Systems 2018 – July 2023

- Technical data analyst lead using unstructured camera data in Python, extracting data-driven insights, developing visualizations, and presenting results to upper management and customers.
- Full-stack software engineer developing image processing applications to measure image quality metrics such as focus score, SNR, demosaicing, color calibration, dark noise, etc. for manufacturing.
- Developing object detection software using TensorFlow to detect and segment camera targets in highly distorted raw images to automate preexisting manual image preprocessing software at 99% accuracy.
- Created new way to quantify image sensor performance using sensor data, leveraging Fourier signal processing, to assist analyzing camera module focus score by isolating sensor perceptive performance.

**High-Accuracy Geometric Camera Calibration**
Showcase Portfolio Project | Efovee.com 2022 - Present

- Creating unique checkerboard detection algorithm from scratch that can detect checkerboard corners without any user inputs in highly distorted images down to a checker size of 10 pixels.
- Developing novel camera calibration software with baseline triangulation error of less than 0.06 degrees for low-cost ($20) embedded Arduino cameras, achieving automotive accuracy requirements by all metrics.
- Reducing the cost of the calibration setup from tens of thousands of dollars to a fifty-dollar checkerboard.
- Calibrates a camera in less than 8 seconds, around two times faster than industry solutions.

## SKILLS

**Programming Languages:** Python, SQL, HTML/CSS
**Frameworks:** Pytorch, TensorFlow, AWS, Git, Docker, Confluence, Jira, Django, Sklearn, OpenCV, Pandas
**Domains:** AI, Machine Learning, Deep Learning, MLOps, Computer Vision, Web Development, NLP

## EDUCATION

**Master of Science in Data Analytics**…….....2022
Western Governor's University, Salt Lake City, UT

**Bachelor of Science in Mechanical Engineering**…….....2018
Purdue University, West Lafayette, IN