Quinn Meyer

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EXPERIENCE

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

Sustainment is a software and AI company that optimizes manufacturing supply chains by connecting contracting teams with U.S. manufacturing suppliers to enhance throughput, minimize rework, and streamline part procurement.

- Lead data scientist, directly reporting to VP of engineering, for an end-to-end $2 million advanced research and development software project leveraging state-of-the-art AI to automate the part procurement process.
- Helped to secure a $5 million project extension to productize the research into a SaaS solution.
- Maintainer of the MLOps pipeline using GitLab, Docker, and AWS for deploying AI models.
- Fine-tuning and deploying state-of-the-art open-source & foundational VLM/LLMs.
- Training deep learning networks on proprietary, real-world data on tasks like segmentation, OCR, NLP, etc.
- Liaison between Data Science Team and the Product, Engineering, DevOps, and Defense teams using tools such as Confluence & Jira to coordinate research and development into robust deployed solutions.

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

Aptiv is a global technology and manufacturing tier-1 automotive supplier that develops integrated autonomous driving solutions to enable the future of mobility. I worked on the Camera Systems team as a Data Scientist.

- Technical data scientist lead leveraging real-world camera data in Python to extract data-driven insights, develop visualizations, and present results to upper management and customers on discoveries.
- Operating as a software engineer to develop full-stack image processing solutions to measure image quality metrics such as focus score, SNR, demosaicing, color calibration, etc. for manufacturing.
- Pioneered 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 2023

- 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, AWS, MLOps, Computer Vision, NLP, Web Development

EDUCATION

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

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