SHERRY COURINGTON

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KEY SKILLS

- Programming Languages: Python, Java, SQL
- Frameworks & Libraries: Pytorch, Tensorflow, Sklearn, OpenCV, Numpy, Pandas, TensorFlow, Scipy, Matplotlib, NLP
- Specialties: Computer Vision, Object Detection, Synthetic Data Generation, AI/ML Model Deployment
- Tools & Platforms: Git, Docker, Kubernetes, Argo workflows
- Cloud Services: AWS, Azure
- Methodologies: Agile, Scrum, DevOps, MLOps

PROFESSIONAL EXPERIENCE

GENERAL MOTORS

Software Engineer | Austin, TX | 06 /2022 – 01/2025

- Manufacturing optimization - Implemented object detection, segmentation, anomaly detection, in the automotive production environment.
- Developed & deployed object detection models (YOLO, Mask R-CNN) for automotive manufacturing, enhancing defect detection and quality control.
- Implemented synthetic image generation techniques for data augmentation, reducing manual labeling costs by 80%.
- Achieved 99.9% model accuracy on real images, trained exclusively on synthetic data.
- Built scalable ML pipelines on Kubernetes clusters using Argo Workflows & Docker, optimizing deployment efficiency.
- Leveraged parallel computing to accelerate training and inference processes.

SDC CONSULTANCY

Consultant | Henderson, NV | 04/2004 – 09/2020

- Provided beta testing and feedback for mobile software applications, ensuring functional and performance improvements.
- CheerApp Beta Test, Germany – https://www.crunchbase.com/organization/cheerapp

EARLY CAREER EXPERIENCE (1992-2003)

Held engineering and business development roles at Harris Corporation and ITT Systems, leading technical engineering and pursuit teams, securing large-scale contracts, and developing aviation communication systems.

EDUCATION

BOSTON UNIVERSITY, GRADUATE SCHOOL OF ARTS AND SCIENCES | MS in Artificial Intelligence | 05/2022

TEXAS TECH UNIVERSITY | MS in Industrial Engineering | 05/1992

BAYLOR UNIVERSITY | BA in Psychology | 08 /1989

RESEARCH PROJECTS

PROJECT PORTFOLIO: GitHub

Civera Software Normalized a SQL database for Civera Software using ML/ NLP.

Sentiment Analysis Built a classifier to predict movie scores from movie reviews using Logistic Regression. RMSE= 1.07.

Recommendation Engine Designed a Collaborative Filtering model for personalized movie recommendations.

Object Tracking Developed an object tracking system using OSVOS deep learning models.

2D to 3D Reconstruction Built 3D reconstruction models for neuroscience research on autonomous robotics.

Gesture Recognition (Computer Vision & Deep Learning) Built a real-time ASL recognition model using CNNs & OpenCV, 95%+ accuracy