

ACCOLADES

US patent holder

Invented a novel method to measure the internal temperature of cooked meat products

Member of Interpol's CACDevOps Group

Invite-only annual meetup of engineers and international law enforcement agents to build tools to help solve human trafficking and child sex crimes

Featured guest on AWS Innovation Ambassadors podcast

Interviewed by Sara Armstrong about building an enterprise-scale computer vision-based inventory tracking system

Honored Guest Speaker

- AWS re:Invent 2021
- Sensors & IIoT: Manufacturing, Automation & Robotics 2021

SKILLS

Python 5+ yrs

Applied Data Science 5+ yrs

Cloud Engineering 5+ yrs

MLOps 5+ yrs

Docker / Kubernetes 3+ yrs

Robotics 3+ yrs

EDUCATION

2008 - 2011

Bachelor's Degree in Neuroscience & Mathematics

Temple University

CONTACT

JEREMY GERARD

Machine Learning Engineer

PROFILE

Cross-disciplined technologist, developer, and machine learning engineer with a neuroscience background and a passion for learning and problem solving, seeking to further a career in applied technology. Most interested in a role which demands and cultivates a diverse range of knowledge and technical aptitude, adaptive critical thinking, and creative solution design.

WORK EXPERIENCE

Machine Learning Engineer Clearview AI

2022 - 2023

- Architected and implemented company-wide MLOps strategy
- Used ChatGPT for entity extraction from metadata
- Built and deployed multiple cutting-edge computer vision models for presentation attack detection and identity verification
- Standardized production ecosystem across machine learning frameworks, architecture and deployment, including unit testing and model optimization for CPU and GPU
- Delivered image enhancement and exposure correction algorithms used by investigators to assist in facial recognition from poor-quality photos


Lead Developer, Emerging Technology Tyson Foods

2018 - 2022


Successfully architected and led the successful development and deployment of a diverse range of projects and solutions around ML, CV, hyperspectral imaging, IoT, robotics - most of which were recognized company-wide for their success in integrating new technologies into the business for the first time, and enabling unprecedented improvements in business operations through data and automation

- Spearheaded the architecture, development, and implementation of two separate end-to-end MLOps pipelines in AWS to autonomously handle image collection from edge to cloud, image annotation and curation, model training and evaluation, and model deployment back to the edge
- Listed as a principal inventor on a pending patent for the design and architecture of a novel solution which autonomously measures internal temperature of cooked food products using a robotic arm, a 3D linescan camera, and an infrared camera
- Acted as data science lead for company-wide COVID-19 response effort. Devised forecasting, risk evaluation, and transmission rate factor models and personally developed a NRT-interactive dashboard and front-end used by Tyson's ELT

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