

## 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.

## EXPERIENCE

### Clearview AI

2022 - 2023

#### Machine Learning Engineer

- 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


### Tyson Foods


2018 - 2022

#### Lead Developer, Emerging Technology


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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