JEREMY GERARD

SKILLS

Python	5+ yrs
Applied ML / CV	5+ yrs
Cloud Engineering	5+ yrs
MLOps	5+ yrs
Docker / Kubernetes	3+ yrs
Robotics	3+ yrs

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

EDUCATION

2008 - 2011

Bachelor's Degree in Neuroscience & Mathematics
Temple University

CONTACT

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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
- 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 factro models and personally developed a NRT-interactive dashboard and front-end used by Tyson's ELT

Hewlett Packard Enterprise — 2016 - 2018
IT Systems Analyst, Marketing
- Front-end optimization technical lead for www.hpe.com
- Owned and managed domain portfolio for enterprise-wide customer-facing webspace
- DNS & Traffic Management Support Team technical lead
- Managed CDN implementation including FEO, global content delivery, caching strategy and security

Neural Instrumentation Lab, Temple University — 2009 - 2012
Research Associate, Project Manager
- Developed an adaptive motor control system based on cerebellar neuronal microcircuitry that used recurrent feedback from a visual error signal to dynamically improve kinematic accuracy of a self-built pneumatic robotic arm
- Wrote original machine learning and computer vision software for real-time motion-tracking in C++
- Presented research at 33rd Annual International Conference of the IEEE Engineering in Medicine and Biology Society