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 and machine learning engineer with a neuroscience background seeking new opportunities in applied technology that demand a diverse range of knowledge and technical aptitude, and require adaptive critical thinking. I'm looking for a role where I can use my experience to make a meaningful contribution while also continuing to grow and learn at pace with the latest technologies.

EXPERIENCE

Clearview AI — 2022 - 2023
Machine Learning Engineer
- Devised and executed an enterprise-wide MLOps strategy, including standardization of production ecosystems, unit testing, and model optimization for CPU and GPU.
- Developed multiple cutting-edge computer vision models for presentation attack detection and identity verification, leveraging ChatGPT for entity extraction from metadata.
- Delivered image enhancement and exposure correction algorithms to support investigators in facial recognition from poor-quality photos.

Tyson Foods — 2018 - 2022
Lead Developer, Emerging Technology
- Designed, developed, and implemented two end-to-end MLOps pipelines in AWS that autonomously handle image collection, annotation, curation, model training, evaluation, and deployment back to the edge.
- Contributed to a pending patent for a novel solution that measures the internal temperature of cooked food products using a robotic arm, a 3D linescan camera, and an infrared camera.
- Led the data science effort for the company's COVID-19 response, devising forecasting, risk evaluation, and transmission rate factor models, and personally developing a real-time interactive dashboard used by Tyson's ELT.

Hewlett Packard Enterprise — 2016 - 2018
IT Systems Analyst, Marketing IT
- Served as the technical lead for front-end optimization of hpe.com, including DNS and traffic management support team.
- Managed a domain portfolio for enterprise-wide customer-facing webspace, and led the implementation of a CDN strategy that included FEO, global content delivery, caching, and security.

Neural Instrumentation Lab, Temple University — 2009 - 2012
Research Associate, Project Manager
- Managed a project that developed an adaptive motor control system for a pneumatic robotic arm based on cerebellar neuronal microcircuitry, incorporating real-time motion-tracking using original machine learning and computer vision software in C++.
- Presented research at 33rd Annual International Conference of the IEEE Engineering in Medicine and Biology Society