

# JEREMY GERARD | RESUME


Machine Learning Engineer

**Status:** Elevated

**Fields:** Machine Learning, Disruption, Anti-disruption


**Techs:** Chaos Engineering, Rocket Surgery

**Activities:**

Austin, TX 

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## Summary

General specialist, specialized generalist.  
Worker, lurker, soda jerker.

## 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 Applications, Emerging Technology - Tyson Foods

2018 - 2021

- 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

### IT Systems Analyst - Hewlett Packard Enterprise

2016 - 2018

- Front-end optimization technical lead for [www.hpe.com](http://www.hpe.com)
- Owned and managed domain portfolio for enterprise-wide customer-facing webspace
- DNS & Traffic Management Support Team technical lead
- QA and IT support for company-wide customer-facing webspace with emphasis on DNS, traffic management, global content delivery, hosting infrastructure, and SSL

### Student Assistant / Programmer - otulea.uni-bremen.de

2010 - 2011

- Realized an online diagnosis platform for workforce literacy development (Flex)
- Modeled software design, implemented various prototypes, conducted usability tests

## Education

### Graduated as M.Sc. Digital Media - University of Bremen

2015 / 07

- Master Thesis: Semi Automated Scoring in Technology Based Assessment
- Developed and evaluated an algorithm for semi automated scoring of spreadsheet data

### Master Project - PrIMA - University of Bremen

2012 - 2013

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- Co-Invented a touch table application for medical support, co-developed software (Java)
  - Formed a scrum team, maintened project dev server (Debian), surveyed target audience

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**Master Studies Digital Media** - University of Bremen

2012 - 2015

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- Inter-cultural classes in English, covering special topics in computer science and design
  - Professionalized in research methods, software development and e-assessment

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**Semester Abroad** - University of Melbourne

2009 - 2010

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- Mastered six months of study and trans-cultural experience in Melbourne, Australia
  - Finished machine programming, information visualization, professional essay writing