# Anthony Galczak

Email | LinkedIn | GitHub

## Professional Summary

Results-driven leader with deep expertise in large-scale model evaluation, deployment, and causal inference. Passionate builder and learner—-comfortable shipping production code, growing junior talent, and leading cross-functional teams. Delivered $100M in impact through ML-driven initiatives over past 3 years.
Seeking Senior MLE / Applied Scientist roles for companies tackling ambitious challenges in modern AI.

## Experience

**Senior Data & Applied Scientist** June 2022 – Present
*Microsoft - Teams: CX Data Science Experimentation, CZ Data: Copilot Experiences* *Remote*

- Architect for the Experiment Insights Framework(EIF), enabling Causal Inference, Bayesian, and Frequentist analysis across 10+ Microsoft product teams. *Python, PowerBI, Azure*
  - Azure Pricing Calculator and Combined Matrix Offer experiments driving $40M in annualized LTV.
  - Coordinated feature development & measurement consultations across dozens of users across PM, SDE, DS.
  - Responsible for novel Causal modeling techniques and improvements, multiple featured internal publications.
- Interim manager for a 5-person DS team; led code reviews, mentoring, sprint planning, and technical strategy.
- Led a v-team for measuring Copilot (LLMs/RAG) product impact across several horizontals, starting July '23.
  - Lead DS on the DFM Support Copilot Wave 2.5 & 3.0 studies across 70k+ internal users; results filled key knowledge gap for Copilot for Service product. Several results quoted by Satya Nadella at Ignite 2024.
  - Coordinated and served as a Causal SME for 4 other major Industry Copilot product studies.
  - Served as Applied Scientist for Azure Copilot; ex. RAG/vectorDB tuning, golden datasets, apology score.
- Monthly 1hr talks on modern AI: LLM Reasoning, Golden Datsets, LLM response quality, chunking methods.
- Regularly interfaced with executives to shape AI product direction and deliver insights at scale.
- Jan '25+: Support DS Tech Lead, redesigning several production models. Deployed changes to the AtRiskCase identification model exposing it to the DFM Copilot, consolidating Support utilities. Driving $20M in cost savings.

**Software Development Engineer** August 2021 – June 2022
*Amazon.com - Teams: CPP AI Research, Anomaly Detection & Classification* *Remote*

- Built and deployed AutoML benchmarking suite for 1000s of binary/multi-class classification tasks. *Python*
  - Produced top-performing model with 80% win rate over incumbent ensemble.

**Software Development Engineer Intern** August 2020 – November 2020
*Amazon.com - Teams: Classification & Policy Platform, AWS Deep Engine-Science* *Remote*

- Developed, benchmarked, and released new BERT-based tabular ML algorithm, TabTransformer. *Python*
- Added semi-supervised learning capabilities and unlabeled data as an input to AutoGluon API. *Python*

**Python Dev Intern** June 2020 - August 2020
*Akuna Capital - Team: Data Access Layer* *Remote*

**Software Development Engineer Intern** June 2019 - September 2019
*Amazon Web Services - Team: AWS AI ML Solutions Lab* *Seattle, WA*

- Wrote template assignment heuristic to increase pairwise matching accuracy. *Scala, Spark*
  - Improved overall AUPRC on deployed AWS record linkage system, AWS FindMatches, by 14%

**R&D Year-Round Computer Science** September 2015 - June 2019
*Sandia National Labs - Teams: ICADS Platform(DevOps), ICADS MAUI (Software)* *Albuquerque, NM*

- Co-led funded research for new ML algorithms on satellite anomaly detection, "Data Clustering". *Python, C++*
- Wrote big-data retrieval tool - 100+ users; Reduced Clang builds from 30m to 10m for $1B system. *Python, C++*
- Mentored 2 Summer interns for Ganglia State of Health project.

**IT Consultant / SME** Feb 2015 - Feb 2016
*Mintz InfoTech* *Albuquerque, NM*

- Android SME and co-author for 3 Android security books marketed to small business & tech colleges.
- On-prem IT support for Mac, Windows support. 100s of users, including technical employees.

## EDUCATION

**Stanford University** Stanford, CA

*Master of Science: Computer Science, specialization in Artificial Intelligence*

- Course Assistant CS103: 5 quarters
- Research Assistant, Stanford AI Lab (SAIL): Video Understanding & CV for autonomous vehicles (Toyota TRI)

**University of New Mexico (NSF S-STEM scholar)** Albuquerque, NM

*Bachelor's of Science: Computer Science*

*Bachelor's of Science: Applied Mathematics*

## TECHNICAL SKILLS

**Languages**: *Python*, Java, Scala, SQL, Kusto, C++, C#, Matlab, R
**ML**: Retrieval Augmented Generation (RAG), Transformers, NLP, NLU, CV, AutoML, PyTorch
**DS**: LLM Evaluation techniques, A/B experimentation, Bayesian Inference, Causal Inference, regression analysis
**Engineering**: Git, Spark, Azure, Docker, AWS, GCP, CI/CD (Jenkins, Azure pipelines), Linux enthusiast