

# ANTHONY GALCZAK

Email | LinkedIn | GitHub

## PROFESSIONAL SUMMARY

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AI leader with 10 years of experience in large-scale model development, production ML, and technical mentorship. Leveraged Amazon, Microsoft, and Stanford experience to deliver \$100M impact via AI initiatives over the past 3 years. Seeking MLE, Applied Scientist, or Research Engineer roles for companies tackling ambitious challenges in modern AI.

## EXPERIENCE

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### Senior Data & Applied Scientist

June 2022 – Present

Microsoft - CX Data Science Experimentation, CX Copilot Experiences

Remote

- Architected the **Experiment Insights Framework (EIF)**, now the **Causal Inference Toolkit**, a platform for A/B testing, Bayesian, and causal inference adopted by 10+ Microsoft product teams; guided decisions such as Azure pricing experiments driving \$40M+ annualized revenue.
- Led applied research for the **Learn Azure Copilot** initiative, building golden datasets and evaluation frameworks for LLM quality; introduced the *Apology Score* metric for non-answers, now standard across Copilot evaluations.
- Directed measurement and experimentation strategy for **Support Copilot** (70k+ users), coordinating multi-team studies and standardizing evaluation methods; results were cited by Satya Nadella at Ignite 2024.
- Redesigned the **Cases At Risk (CAR)** predictive model, resolved critical pipeline bugs, and deployed to production; integration into DfM Copilot delivered \$20M+ in annual support cost savings.
- Provided leadership and mentorship: interim manager for a 5-person DS team; gave talks on advanced AI topics (LLM reasoning, agent design); mentored colleagues across Microsoft.
- Launched the **CXP LLM Digest**, a monthly cross-team paper review series fostering knowledge-sharing on state-of-the-art LLM research.

### 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

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### **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

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**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