

## Work Experience

<b>Machine Learning Engineer II</b>	<b>Teamworks</b>	<b>March 2025–Present</b>
<ul style="list-style-type: none"><li>Slashed costs &gt;7x on an hourly pipeline by batching database and S3 writes with guardrails for potential lost data</li><li>Cut backfill costs for a major vendor &gt;5.5x via improving reprocessing logic in our DAGs</li><li>Facilitated delivery of a renewal-critical feature by improving documentation of automated Airflow DAG creation</li><li>Reduced wait-time for a key client report from 2 hours to 3 minutes by minimizing I/O operations in a data pipeline</li><li>Improved on-call response time to server failures &gt;30% by creating step-by-step troubleshooting examples</li></ul>		
<b>Senior Data Scientist</b>	<b>Aiberry</b>	<b>2023–2025</b>
<ul style="list-style-type: none"><li>Unlocked ~30% more top-of-funnel ARR by fine-tuning custom LLMs for extracting clinical insights from screenings</li><li>Halved our largest compute cost while sustaining accuracy by overhauling our feature engineering process in Python</li><li>Catalyzed &gt;\$3M in new VC funding leads by driving the publication of the company's <a href="#">first clinical validation study</a></li><li>Delivered highly requested features by leading R&amp;D into LLMs and speeding up inference on AWS Lambda &gt;700%</li><li>Increased available screenings 500% by owning ML engineering from raw data to deploying models in production</li><li>Generated &gt;10 warm sales leads by giving talks about AI and LLMs at prominent institutions like AWS</li></ul>		
<b>Senior Data Scientist</b>	<b>The Looma Project</b>	<b>2022–2023</b>
<ul style="list-style-type: none"><li>Enabled real-time analytics worth &gt;\$1M in full-funnel value by putting a LightGBM ML model in production</li><li>Created a new revenue channel for a mission-critical product by implementing computer vision models in Python</li><li>Reduced latency in reporting performance metrics during pilots 400% by creating <a href="#">automated, scalable reports</a></li><li>Sped up a customer-facing data API 600% by optimizing SQL calls to BigQuery</li><li>Engaged 50% of employees on data science case study results by developing an <a href="#">interactive, participatory system</a></li></ul>		
<b>Principal Data Scientist</b>	<b>Lab for Scalable Mental Health</b>	<b>2020–2022</b>
<ul style="list-style-type: none"><li>Decreased user depression 19% by architecting A/B tests <a href="#">in a linear regression framework with multiple imputation</a></li><li>Saved 20 hours of manual work per week by creating a suicidality screener for text data using boosted tree models</li><li>Engineered end-to-end pipeline for 100% of the organization's data with a mandate to only use open-source tools</li></ul>		
<b>Data Scientist</b>	<b>Lab for Scalable Mental Health</b>	<b>2019–2020</b>
<ul style="list-style-type: none"><li>Reduced churn 53% in digital health products by A/B testing the tradeoffs between effectiveness and churn</li><li>Achieved &gt;90% sign-up rate for reproducible workflow tools after <a href="#">presentations at national conferences</a></li></ul>		

## Technologies and Languages

- Languages: Python (numpy, pandas, scikit-learn, PyTorch), R (tidyverse, ggplot2), Javascript, Rust
- Technologies: SQL, GCP, BigQuery, AWS, S3, Lambda, Sagemaker, Git, GitHub, Docker, Command line
- Analytic Techniques: Causal inference (DAGs, PSM, Double ML), A/B testing, Multilevel models, Machine learning

## Education and Certifications

- Ph.D. Clinical Psychology**, University of Texas at Austin, Austin, TX. **2014–2020**
- B.A./M.A., Clinical Psychology**, American University, Washington, DC. **2008–2013**

## Other Information

- Published >25 technical papers, [cited > 4,350 times](#)
- Co-wrote the [#1 new release](#) in the teen mental health category on Amazon (later translated to Mandarin)
- Researched and fact-checked an episode of [If Books Could Kill](#), a top podcast according to [Vulture](#)