

# TRISTAN MISKO

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## Summary

Python engineer working on data- and model-adjacent systems: pipelines, automation, and production backends. Experienced with reproducible workflows, deployment, and integrating analytical or ML-oriented logic into reliable software.

## Skills

<b>Core</b>	Python; Flask; REST APIs; data structures; algorithmic thinking
<b>ML / AI</b>	PyTorch (basic); scikit-learn; model pipelines; evaluation and experimentation workflows
<b>Data</b>	ETL pipelines; validation/QC; longitudinal datasets; MongoDB (aggregation pipelines)
<b>Engineering</b>	Git; GitHub Actions (CI/CD); Linux; Apache + mod_wsgi; CLI tooling (Click)

## Experience

<b>Institute for Research on Labor &amp; Employment (IRLE)</b> <i>Software &amp; Data Engineer (Contract) — Berkeley, CA (Hybrid)</i>	<b>Dec 2023 – Dec 2025</b>
• Built and maintained Python-based data pipelines and backend services supporting large-scale analytical workflows.	
• Designed reproducible ETL processes for longitudinal datasets spanning 66 countries and 20+ years.	
• Implemented backend APIs (Flask) and data aggregation logic (MongoDB) to support downstream analysis and experimentation.	
• Owned production deployment on Linux (Apache + mod_wsgi), including CI/CD pipelines and operational debugging.	
• Developed internal Python tooling (CLI via Click) to automate dataset rebuilds, validation, and maintenance tasks.	

<b>Berkeley Research Group (BRG)</b> <i>Economics &amp; Damages Associate — Emeryville, CA (On-site)</i>	<b>Aug 2023 – Jul 2024</b>
• Wrote Python and Stata scripts to clean, validate, and transform large, messy datasets into analysis-ready form.	
• Automated repeatable data-prep workflows to reduce manual effort and improve reliability across analytical pipelines.	

*Earlier:* IRLE Research Data Analyst (Aug 2021 – Aug 2023); IRLE Undergraduate Research Apprentice (Aug 2020 – Aug 2021).

## Selected Project

<b>BinderBuilder (Python CLI)</b>	<b>Feb 2024 – May 2024</b>
• Built a Python CLI to automate footnote verification and document assembly for expert reports.	
• Implemented lightweight NLP techniques (tokenization, inverse-frequency heuristics, rule-based parsing) to extract structured information from Word document XML.	
• Designed human-in-the-loop workflows combining automated candidate matching with manual review and PDF rendering.	
• Emphasized robustness, traceability, and repeatability over one-off scripting.	

## Education

<b>University of California, Berkeley</b> B.A. Applied Mathematics (Statistics Concentration)   B.A. Economics (Honors)	<b>Aug 2018 – May 2022</b>
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## Leadership

<b>Lindy on Sproul (UC Berkeley)</b> — Event Coordinator (Dec 2019 – May 2022): coordinated weekly events, volunteers, and logistics; taught lessons.
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