

Professional Profile

Data scientist and seasoned IT leader with a wealth of experience in driving data-driven initiatives. Passionate about merging the power of data and analytics with strong leadership and communication skills to bring about positive changes for our planet. Dedicated to leveraging data for meaningful transformation and innovation.

Education

University of California, Berkeley – Master of Information and Data Science 2024 (anticipated)

Relevant Courses: Data Science Programming, Research Design and Applications for Data and Analysis, Statistics for Data Science, Applied Machine Learning, Data Engineering, Behind the Data: Humans and Values, Experiments and Causal Inference, Privacy Engineering

Penn State University – B.S. Supply Chain & Information Systems, Minor Information Systems Management 2011

Skills and Tools

Programming Languages: Python (Pandas, NumPy, Matplotlib, Seaborn, ScikitLearn, TensorFlow, Keras, Pytorch), Bash, PowerShell

Development Tools: Git, GitHub, Jupyter, Visual Studio/VS Code, RStudio, RMarkdown

Data Analysis & Visualization: Excel, Power BI, Google Analytics, Google Ads

Database Technologies: SQL (PostgreSQL, MySQL), NoSQL (Neo4j, MongoDB, Redis)

Statistical Tools: R, Stata

Operating Systems: Windows, Linux

Agile Methodologies: Agile, Scrum, SAFe

DevOps Tools: Azure DevOps

Projects

Responsible AI: Proposed Comprehensive Incident Management Framework, UC Berkeley 2023

Addressed rising concerns of AI-related incidents by emphasizing learning, collaboration, and restorative justice. Emphasized the role of ethics specialists in ensuring responsible AI development.

Differential Privacy in Facial Recognition, UC Berkeley 2023

Implemented Discrete Cosine Transform and differential privacy to enhance facial recognition privacy, reproducing results from Ji et al. (2022) and exploring the balance between privacy preservation and utility.

Chess Banter: Does engaging with an opponent in online chess impact their performance?, UC Berkeley 2023

Conducted online chess experiments using the lichess.org API and the OpenAI API to explore the impact of chat interactions on player performance. Found no significant effects.

Random Acts of Pizza, UC Berkeley 2023

Utilized NLP approaches and ML models to predict outcomes on the "Random Acts of Pizza" Subreddit, showcasing proficiency in random forest, logistic regression, and CNN.

Evaluation of "icing" kickers in the NFL using play-by-play data from 2001 to 2022, UC Berkeley 2023

Conducted a study on the impact of "icing" kickers in the NFL, utilizing play-by-play data from 2001 to 2022. Found no significant effects.

Gender Analysis of the American Time Use Survey, 2003 - 2021, UC Berkeley 2022

Performed descriptive analysis on time use between binary genders in the United States, employing Python (Pandas, NumPy, Seaborn, Matplotlib).

Generative Culture Survey, UPMC 2021

Developed Power BI and Jupyter Notebook-based tools to assess and enhance organizational culture within development teams.

Work Experience

UPMC <i>Manager, IT</i>	Pittsburgh, PA 2022 – 2023
<ul style="list-style-type: none">Expanded team size from 6 to 10 individual contributors in 2022.Implemented DevOps Research and Assessment (DORA) metrics, driving process improvements.Introduced modern Incident Analysis and Incident Management practices, aligning with the New View approach to promote a generative, learning, and just culture within the organization.	
<i>Systems Analyst – Team Lead</i>	2020 – 2022
<ul style="list-style-type: none">Guided a team of 6 Release Engineers and Release Managers, fostering collaboration and enhancing efficiency within the department.Created an internal survey using Microsoft Forms to assess team culture, and developed a data-driven tool utilizing Power BI, Python, and Jupyter Notebooks to facilitate teams in utilizing survey results for informed decision-making.	
<i>Systems Analyst – Senior</i>	2018 – 2020
<ul style="list-style-type: none">Drove release management activities, resulting in a 100% increase in release frequency from 2018 to 2019.Implemented an automated release management process using Azure Pipelines, streamlining workflows and reducing manual intervention.Developed comprehensive release plans using Microsoft Visio and Project, serving as the primary liaison between the IT department and external teams for seamless software release execution.	
<i>Systems Analyst</i>	2017 – 2018
Avendra, LLC <i>Senior Manager, Strategic Sourcing</i>	Rockville, MD 2016 – 2017
<ul style="list-style-type: none">Oversaw a diverse portfolio of engineering contracts valued at over \$170M, ensuring their effective management and delivery.	
<i>Manager, Strategic Sourcing</i>	2014 – 2016
McKesson Corporation <i>Business Process Engineer</i>	Ruther Glen, VA 2012 – 2014
Burlington Stores, Inc. <i>Industrial Engineer – Project Manager</i>	Edgewater Park, NJ 2012 – 2012

Community Involvement

Humane Action Pittsburgh (HAP) <i>Strategic Analyst</i>	Pittsburgh, PA 2022– Present
<ul style="list-style-type: none">Wrote the Privacy Policy, informing individuals of data use, practices, and rights.Collect, organize, and analyze data to support initiatives across HAP	
Humane Animal Rescue <i>Dog Walking/Behavior Volunteer</i>	Pittsburgh, PA 2019 – 2022
Furkid Rescue <i>Foster Parent</i>	Bethel Park, PA 2017 – 2020
Humane Rescue Alliance <i>Behavior, Training, and Socialization Volunteer</i> <i>Foster Parent</i>	Pittsburgh, PA 2013 – 2017 2013 – 2017