

Daniel A. Crawford

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Experience

Optimal Dynamics

New York, NY – Remote in Pittsburgh, PA

Data Analyst, Solutions Engineering

Aug 2022 – Dec 2023

- Discovered over \$10 million in client profit gains from a state-of-the-art AI Decision analysis model
- Optimized time-to-delivery of those profits from 4 weeks to 3 days with automated analytics and data pipelining
- Built client trust and fidelity through model explanation and knowledge transfer
- Designed the JIRA board and coordinated the demonstration

phData, Inc.

Minneapolis, MN – Remote in Pittsburgh, PA

Data Engineer

April 2022 – Aug 2022

- Built and optimized data pipeline for a municipal energy company experiencing increased demand
- Fed data into analytics products to reduce infrastructure expenditure

Department of Defense, Department of the Army

Ft. Lee, VA

Operations Researcher/Systems Analyst, SMART Intern

July 2020 – April 2022

- Built an automated analytics library for optimizing sustainability operations
- Created research article search engine and text summarized to facilitate research direction and speed
- Led data science effort for the creation of metrics and insights from a discrete event simulation model
- Developed analytics dashboard for Army Generals to predict and apportion spending on projects and research domains

Education

Master of Art in Linguistics

Pittsburgh, PA

University of Pittsburgh, Dietrich School of Arts and Sciences

April 2024

Master of Science in Computer Science – Machine Learning

Atlanta, GA

Georgia Institute of Technology, College of Computing

April 2023

Master of Engineering in Industrial Engineering

Las Cruces, NM

New Mexico State University, College of Engineering

May 2022

Bachelor of Science in Mathematics with Honors (B.Phil)

Pittsburgh, PA

University of Pittsburgh, Dietrich School of Arts and Sciences, Minor: Linguistics

April 2020

Significant Projects

University of Pittsburgh Graduate Artificial Intelligence Innovation and Networking Series

Writing, editing, and producing content on the impact and importance of AI in academia and society

Lexical Access Prediction and Role of Semantic Embeddings

Using state-of-the-art Natural Language Processing techniques, discovered a key feature of the cognitive processes of language that can be applied in any text-based language data system

Part-time Faculty, Department of Mathematics, University of Pittsburgh

Designed and Taught Mathematics courses for Business, Science, and Engineering students

Professional Skills

Python, R, pyTorch, Tensorflow, pandas, genism, spaCy, nltk, Agile, Java, SQL, CI/CD, Snowflake, AWS
Machine Learning (ML), AI, NLP, Optimization, Operations Research, Logistical Analysis, Systems Analytics, Modeling and Simulation, Automated Analytics, KPIs, Modernization, Pipelines, Dashboards, Presentations, KTs