

Logen Wolford

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RELEVANT EXPERIENCE

Berkeley Springs Instruments

Frostburg, MD

Data Science Tech Lead (Promoted from R&D Data Scientist)

November 2023 – Present

- **Built and deployed a deep learning model** to automate analysis of ultrasonic sensor waveform data, eliminating manual review of ~600 waveforms/day and saving ~25 hours of analyst time daily
- **Conducted A/B testing of candidate AI models**, comparing performance on live production data to select the best model for the automated waveform analysis system
- **Architected an internal MLOps platform from scratch** to serve and version machine learning models, using BentoML for endpoint serving, Amazon S3 for the model registry, and GitHub Actions for automated deployments
- **Designed a company-wide Grafana dashboard** giving C-Suite leadership real-time visibility into instrument performance across the customer base
- **Spearheaded a full database audit**, identifying and correcting 4.3 million inaccurate readings across production databases
- **Built and continue to maintain PyIMPACT**, a personal Python library used internally for production data analysis, digital signal processing, data science, and machine learning workflows

The Lockhouse Group

Cumberland, MD

Software Engineering / Data Science Intern

July 2023 – September 2023

- **Analyzed ridership and operations data** for USA Transit Systems to support evaluation of Allegany County Transit
- **Built predictive models** forecasting the trajectory of Allegany County Transit relative to peer (“sister”) transit systems

EDUCATION

Frostburg State University

Frostburg, MD

Bachelor of Science in Computer Science

August 2019 – December 2023

Relevant Coursework: Software Engineering, Data Structures and Algorithms, Parallel Computing

Korea University

Seoul, South Korea

Study Abroad – Machine Learning & Artificial Intelligence Focus

August 2021 – June 2022

Relevant Coursework: Deep Learning, Artificial Intelligence, Digital Logic Design

TECHNICAL PROJECTS

GhostClick (Work in Progress) | AI/ML | [GitHub - GhostClick](#)

- Developing an AI-powered autoclicker that introduces human-like variance into click timing, filtering real clicking-pattern data from the OSU rhythm-game dataset (Kaggle) and generating synthetic data modeling higher click speeds

Billboard Hot 100 Happiness Analysis | Data Analysis | [GitHub - Billboard Hot 100 Happiness Analysis](#)

- Scraped every year-end Billboard Hot 100 chart (1946–2022) and used the Spotify API and Musixmatch to gather audio attributes and lyrics for nearly 7,000 songs
- Combined Spotify audio attributes with lyric sentiment analysis to build a 76-year trend line tracking the “happiness” of popular music over time

2025 Fantasy Football Awards | Data Analysis | [GitHub - 2025 Fantasy Football Awards](#)

- Built an interactive mock awards-ceremony app analyzing fantasy football player performance, surfacing both top-performer and underperformer (“bust”) award categories
- Deployed the analysis as a public web app using Streamlit

SKILLS & CERTIFICATIONS

Languages & Tools: Python, Jupyter Notebook, SQL, MySQL, PostgreSQL, ClickHouse, Grafana, PowerBI, AWS (S3, ECR, ECS), GitHub Actions

Libraries, ML & AI: Pandas, SciPy, Scikit-Learn, Matplotlib, Keras, TensorFlow, BentoML, Streamlit

Certifications: Designing and Building AI Products and Services – MITx

Conference Presentations: [Designing and Developing Internal ML/AI Applications](#) – Tech at the Gap