Conor Dowling

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Objective

Technical Product Owner and Lead Engineer with deep experience designing and delivering high-scale analytics, data, and attribution systems. Proven ability to bridge product vision and engineering execution while driving architectural modernization, scalability, and measurable business impact. Seeking to leverage technical leadership and hands-on expertise in data-intensive systems in a Staff or Principal Engineer role.

Education

UMass Amherst — Amherst, MA
MS in Computer Science with concentration in Data Science & Algorithms — December 2015

Williams College — Williamstown, MA
BA in Mathematics, Computer Science, and Economics — May 2014

Skills

Areas of Expertise: Data Analytics, Data Engineering, Big Data, Data Visualization, Software Engineering, Functional Programming, Microservices, Event-driven Architectures, Analytical and Strategic Thinking

Programming Languages: Python, Scala, Javascript, Java, C++, Ruby

Technologies: AWS, Airflow, ClickHouse, Spark, SQL, Terraform, Docker, DBT, Kafka, Spark, TensorFlow, Snowflake, OpenCV, HTML, CSS, LaTex

Related Experience

Klaviyo — Boston, MA

Lead Software Engineer — July 2023 – Present

- Lead product strategy and technical delivery for Klaviyo's analytics data products including Attribution, Benchmarking, and Reporting systems.
- Rearchitected Klaviyo's attribution system, migrating from a MySQL-based, serverless implementation to a scalable data lake solution using Spark and AWS EMR. The redesign expanded feature flexibility**,** enabled omni-channel and multi-touch attribution, and reduced cycle time from 2 weeks to 1 day for adding new dimensions.
- Drive roadmap definition, backlog prioritization, and product release coordination.
- Directed and coordinated efforts across Data Warehousing, Data Lake, and Reporting teams to ensure successful integration and delivery of analytics and attribution initiatives.

Senior Machine Learning Engineer — May 2021 – Jun 2023

- Optimized Benchmarks data storage and query patterns to support sub-second request latencies
- Acted as interim Engineering Manager for Benchmarks team during leadership leave, overseeing sprint planning, technical tasking and prioritization, and mentoring engineers while maintaining delivery cadence.
- Rotated across Data Dictionary, Product Recommendations, and Data Lake initiatives, reflecting leadership confidence in ability to rapidly acquire domain context and deliver value across multiple services.

Teikametrics — Boston, MA

Data Science Engineer II — October 2018 – May 2021

- Acted as a thought leader within the Data Science team, regularly communicating with the Product team to obtain customer feedback on technologies to pinpoint future efforts of development and prioritize current efforts.
- Effectively communicated tasking to junior team members and oversaw junior team members' technical contributions to products.
- Ideated and spearheaded effort to train and productionize seasonality model for Amazon advertising conversion rates in SageMaker using Facebook Prophet based on trends in customer feedback.
- Orchestrated DBT (data build tool) using Apache Airflow to power business intelligence reporting and Machine Learning models in Snowflake.
- Led project to replicate and build upon Amazon's DeepAR model to jointly predict advertising performance distribution time series using TensorFlow.
- Created and maintained bidding algorithm to optimize ads for 200+ businesses on Walmart using Scala, Kafka, and PostgreSQL.

MITRE Corporation — Bedford, MA

Senior Software Engineer, Data Analytics — December 2017 – October 2018

- Developed data pipeline and Machine Learning analytics to detect sepsis in pediatric ICU patients at John Hopkins University.
- Analyzed impact of testing framework utilization on FHIR standard compliance and co-authored paper published by JMIR.
- Analyzed existing satellite pathfinding algorithm and provided heuristics to improve performance by optimizing satellite rendezvous maneuvers.

Staff Software Engineer, Agile & Adaptive Software Engineering June 2016 – January 2018

- Provided data visualizations and front-end development for cybersecurity risk assessment tool.
- Architected web app to serve data visualizations for nuclear war-game scenarios utilizing D3, javascript, python flask web server and MongoDB.

Pixel Forensics Burlington, MA

Data Science Intern June 2015 – October 2015

- Developed logo detection and identification algorithms using Computer Vision and Machine Learning techniques using OpenCV in C++ and Python.

Other Details

Recognized for exceptional adaptability and ease at context-switching across domains, and ability to collaborate with individuals of diverse backgrounds. Known for quickly learning new systems, maintaining delivery under pressure, and proactively implementing effective solutions. Willing to travel.