Conor L. Curry

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Skills

- Data pipelining and analysis for production data warehousing systems using SQL, DBT, Kafka, Spark, Python, and ETL tools.
- Excellent programming fundamentals proven through development, maintenance, and administration of foundational, scalable, and deeply automated high-performance data infrastructure and applications.
- Flexible and driven as a people manager, technical contributor, and team member; highly invested in ensuring the success of my colleagues and the organization.
- Effective translator of business goals and expectations into engineering priorities, features, and broad team vision.
- In-depth experience including (but not limited to): Python; SQL; DBT; Data Warehousing; Looker, AWS Redshift, Spectrum, Glue, S3, EMR; Apache Kafka and Streaming Analytics, Airflow, Superset, Spark; ElasticSearch, Logstash, Kibana (ELK); Git VCS; CI/CD; Linux

Relevant Work Experience

Senior Data Engineer – *Grailed/GOAT Group*   *June 2022 – Present*

- Modeled extensive business data in DBT, to provide clearer, truer, and more usable foundational data sources and marts.
- Created a more extensible and performant user sessions model, making it feasible to cheaply recompute sessionization. This allowed us much greater flexibility in adding measures of business performance based from user session data.
- Identified and reconciled faulty data fields causing broad user mis-identification issues across our event data. Remodeled base transformations to isolate and mitigate the impact, with minimal disruption to downstream data products and stakeholders.
- Created parametric order and signup attribution models to quantify marketing performance. Worked closely with stakeholders to visualize and communicate the changes, facilitating buy-in to improvements in how we were measuring marketing performance.
- Sourced 10x more marketing data from our iOS application, leading to a 30% increase in orders attributable to marketing activity.
- Integrated Stripe into our payments data models, producing a set of models generalized to cover arbitrary payments methods, facilitating self-serve analytics for Finance, Operations, and Executive teams.
- Expanded Data Engineering's role to include modeling and visualization in Looker, streamlining cross-team processes with Analytics.
- Promoted code and analytics review within the Data org as a whole, strengthening the flow of information and increasing work quality.

Senior Data Engineer – *Encortex*   *December 2020 – June 2022*

- Architected production-scale data systems for low latency ingestion, transformation, and summarization of 300MM+ daily user events.
- Led data engineering priorities for analytics; data integration, transformation, and enrichment; and database performance.
- Oversaw migration of BI analytics to Apache Superset from Redash, to promote analytics velocity and discoverability across the org.
- Provided engineering-certified data products to the org, to simplify analytics for Operations, Sales, E-staff, and external customers.
- Published in-depth analytics whitepapers to highlight specific action plans for the org to leverage data assets into revenue impact.
- Directed a series of projects to evolve our Kafka Stream processing system from a simple warehousing transformer into a real-time data application to target high-value consumers.

Software Engineer / Analytics Team Lead – *Cogo Labs*   *November 2019 – May 2020*

- Operated as Project Owner of Revenue Operations, growing from a team of 3 to a team of 9 Analysts, Senior Analysts and Engineers.
- Managed business research related to monetizing marketing channels across the organization's incubating startup teams.
- Provided a stable, automated platform for launching new MVP venture products across a range of consumer markets.
- Developed a robust and flexible data-oriented flexible configuration layer for analysts to rapidly operationalize their experiments and insights – with underlying system to manage allocation of distributed data and computational resources relevant to the optimization of marketing campaigns and consumer research.
- Designed and implemented systems by working directly with data analysts and management stakeholders. Continually balanced the importance of fast analytics turnaround while simultaneously meeting critical quality, scalability, maintainability, and configurability standards required to control the major revenue stream of Cogo Labs.

Quantitative Data Analyst – *Cogo Labs*   *October 2017 – November 2019*

- Interrogated and processed large consumer datasets using a variety of SQL and BI visualization tools to uncover actionable insights, while developing, operating, and maintaining internal systems to execute on turning those insights into revenue.
- Expanded role into people management within Analytics, to advance my direct reports' technical growth and careers.
- Integrated high performance Spark SQL and standardized its usage by Cogo analysts, through hands-on instruction of colleagues.
- Built statistical models to classify user behavior, via A/B testing and heuristics solving the Generalized Assignment Problem at scale.

Education

University of Pittsburgh – *Dietrich School of Arts and Sciences*   *Class of 2017*

- B.S. Computer Science & B.S. Mathematics

Teaching Assistant / Peer Tutor / Research Mentor – *University of Pittsburgh*   *August 2014 – May 2017*

- Lead lab sections to facilitate active learning and provide supplementary lectures for *Intro to Python* and *First Experiences in Research.*
- Held office hours to assist undergraduate students in all Computer Science core classes and several upper-level courses.

Undergraduate Researcher – *Lab of Dr. Adam Lee*   *January 2014 – September 2015*

- Developed a Raspberry Pi-based presence detection system, using multiple low-fidelity sensors and computer vision classification.
- Supported by Systems Research Scholarship; coauthored published research.

Data Acquisition Sourcing Internship– *Maponics*   *July – September 2014*

- Automated geographic data collection, classification, and cleaning using Python web scraping libraries and GIS APIs.

Awards & Activities

Coauthored *Sensing or Watching?: Balancing Utility and Privacy in Sensing Systems via Collection and Enforcement Mechanisms*   *SACMAT '18*

- Published in SACMAT '18: Symposium on Access Control Models and Technologies: *https://doi.org/10.1145/3205977.3205983*

Annual University of Pittsburgh Hackathon   *2014, 2015*

- First place in the 2015 *SteelHacks* event, for designing a genetic algorithm to use brainwave signals to evolve calming rhythms

NetApp Systems Research Award   *September 2014*

- Award to fund a research and development of a distributed, embedded edge-computing sensor system for person detection

Study Abroad – Linnéuniversitetet, Växjö, Sweden   *Fall 2016*