

Joe Heyob

>>> DATA ENGINEER

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I am a data professional with a proven track record of leading technical development, cloud data strategy, and consulting across various industries.

"In God we trust. All others must bring data." - Dr. W. Edwards Deming

PROFESSIONAL EXPERIENCE

Senior Data Engineer, Solutions Lead

[Agility Partners](#) | 2022-Present

- Cardinal Health
 - Led a team of 5 on the development of a BigQuery data mart and analytics dashboards integral supply chain data operations.
- Fifth Third Bank
 - Designed the migration strategy of mainframe data models to an AWS cloud warehouse.
 - Consulted on data pipeline best practices for cloud resource consumption of bank acquisitions.

Cloud Data Engineer

[Zartico](#) | 2021-2022

- Initiated an overhaul of the organization's cloud data strategy. The project utilized python, spark, BigQuery, and apache airflow in a cloud-deployed CI/CD environment. The results simplified the existing architecture, led to engineering time savings, and 7-figure cloud cost reduction.
- Created a full-stack "heads-up alerting" dashboard which improved analyst workflow and proactive data quality identification.

Data Scientist, Machine Learning Engineer

[Riverside Research](#) | 2020-2021

- Built large scale ETL processes and tensorflow models for field-grade imagery identification machine learning applications.
- Delivered product presentations on advanced machine learning prototypes for sensor data processing to Department of Defense officers.

SKILLS AND CERTIFICATIONS

- Python *expert: 8 years*
- R *expert: 8 years*
- Database *expert: 8 years*
 - SQL
 - postgresSQL
 - mySQL
 - BigQuery
 - Microsoft SQL server
 - Snowflake
 - NoSQL
 - firebase
 - mongoDB
- Machine Learning
 - tensorflow
 - spacy
 - llama
 - scikit-learn
- Web application frameworks *expert: 8 years*
 - Shiny
 - Flask
 - Django
- Cloud
 - AWS (certified cloud practitioner)
 - GCP
 - Azure
- Linux
- Tableau *4 years*

ADDITIONAL EXPERIENCE

Technical Lead, Owner

[RealSmart Tech](#) | 2019-Present

- Consult on technical efforts for small businesses, startups, and fortune 500 companies.
- Proctor & Gamble
 - Designed, developed, and integrated a full stack research database interface in collaboration with offshore development teams.
- Rali Capital Management
 - Developed a custom analytics dashboard for global financial activity research.

Data Scientist

[Aviso Retention](#) | 2019-2020

- Enhanced retention model accuracy across customers ~5% (based on internal true-positive retention accuracy metrics) while simplifying code and integration processes substantially.
- Implemented data accessibility best practices in the organization; including a cloud hosted database.

Junior Data Scientist

[Booz Allen Hamilton](#) | 2018

- Supported the development of a geospatial machine learning product for a United States Intelligence Agency.
- Utilized Java and AngularJS to implement unit testing.

Data Analyst

[InfoScout](#) | 2017

- Designed a packaged-product customer lifetime value algorithm for the organization's b2b analysis platform.
- Provided database management and analytics services for a fortune 500 consulting team.

Teaching Assistant

[University of Pennsylvania](#) | 2015-2016

- Guided course recitations on statistical programming fundamentals for business analytics.
- Coached a 12 person international team to first place in the Wharton business plan competition.

Data Specialist

[UPenn Athletics Dept.](#) | 2015

- Managed the system migration for season ticket holder and historic data for the University of Pennsylvania athletic department while performing data quality assurance and analytics.

ACTIVITIES

Board Member

[Weston A. Price Foundation](#) | 2021-Present

- Developed and manage the local chapter website and forum ([wapfers.com](#)).
- Advise and support local events pertaining to family wellness and education.

Volunteer Youth Coach

[St. Gertrude Wrestling](#) | 2022-Present

- Run weekly practices and yearly camps for ages 10-14 wrestlers; focusing on technical development, sportsmanship, and virtue.

Mentor

[Beat the Streets Philadelphia](#) | 2014-2018

- Recipient of the 2018 Mentorship Excellence Award.
- Committed to weekly sessions to tutor student athletes in at-risk and under-served communities.

EDUCATION

University of Pennsylvania, The Wharton School

[B.S. in Economics, Statistics](#) | 2014-2018

- Coursework in computer science and machine learning
- Served as wrestling team captain