Thomas Yager-Madden

https://yager-madden.com

20-plus-year veteran database administrator and data architect with a proven track record building data platform and business intelligence practices across a variety of industries. Strong open source contributor, maintainer, and advocate, with highly developed skills in PostgreSQL and Python. Accomplished ELT/ETL engineer with a deep background in data modeling and API integration.

Experience

BenchPrep, Chicago, IL
Data Architect (October 2018 - Present)

- Solo database administrator, managing multiple highly-available PostgreSQL application databases averaging 4000 transactions per second (TPS) serving a 24x7 multi-tenant application with 9 million total users (50k active daily)
- Set up active-active database replication using Postgres-BDR and took system through multiple rounds of system upgrades with minimal downtime
- In first year, improved overall mean query time from 12ms to 4ms, effectively improving overall throughput threefold
- Managing a team of data analysts and engineers building the company's first data warehouse on Snowflake database, ELT/ETL pipelines using Fivetran and dbt, and reporting dashboards in Sisense and Tableau
- Designing data mart models for the Snowflake warehouse to meet reporting requirements

OAO, Chicago, IL
Data Architect (2015 - 2018)

- Migrated legacy databases from MySQL 5.1 at Rackspace to PostgreSQL on Google Cloud SQL
- Designed and built corporate information factory using BigQuery and Postgres
- Developed ETL processes and orchestration (Python Luigi) for populating data warehouse from Google Ad Manager and other external APIs
- Developed open-source microservice Nerium for delivering analytic query results as JSON endpoints
- In final year (2017 - 2018) was given management of all software engineers (a five-person team) and enterprise application architecture

OptionsHouse, Chicago, IL
Senior Database Administrator (2012 - 2015)

- Administered several highly-available, doubly-redundant (failover and off-site) PostgreSQL databases handling 15,000+ TPS during market hours

Leapfrog Online, Evanston, IL
Enterprise Data Architect (2006 - 2012)

- Newly-designed SSAS data cube allowed media buyers to save $2.5 million (a 20% reduction) in ad spend in a single year, while improving conversion rates and increasing revenue.

Solucient, Evanston, IL/Bellevue, WA
Business Intelligence Engineer and Data Modeler (1997 - 2006)

- Data modeling lead for UB-04 hospital inpatient repository on Oracle database, still in production use 15 years later

Education

St. John's College, Annapolis, MD
Bachelor of Liberal Arts, 1991