

Robert L. Zacchigna

[About - Robert-Zacchigna.github.io](https://github.com/Robert-Zacchigna) ❖ [Contact - Robert-Zacchigna.github.io](https://github.com/Robert-Zacchigna) ❖ [linkedin.com/in/robert-zacchigna](https://www.linkedin.com/in/robert-zacchigna)

SUMMARY

Skilled data and machine learning professional, experienced in leading the development and delivery of data solutions which drive critical business decisions. Proficient in end-to-end data analysis and ML development within modern cloud stacks including model building, data pipelines, workflow orchestration, database design, dashboard design, and DevOps.

TECHNICAL SKILLS

- **Data Science:** Modeling, Machine Learning, Forecasting, Text Mining, NLP, Ensembles, Optimization, Regression, Statistics, Scraping, Tensorflow, PyTorch, Deep Learning
- **Data Engineering:** Data Pipelines, ETL, Airflow, Glue, Orchestration, Data Warehouse/Lake/Structures
- **DevOps:** Docker, Kubernetes (K8s), Github, Git, Jira, Agile, Jenkins, CI/CD, Unit Testing, MLOps, Security, Monitoring, Artifactory
- **Cloud:** AWS, AWS Solution Architecture, EC2, ECS, EMR, Glue, RDS, Redis, S3, EFS, SQS, SNS, IAM, Lambda, Databricks, Jupyter
- **Databases:** NoSQL, MySQL, PostgreSQL, SQLite, Aurora, DynamoDB, ElastiCache, Redshift, Snowflake
- **Programming:** Go, APIs, Python, Spark, Scala, SQL, HTML, CSS, Linux, bash, yaml, pyspark, pandas
- **Visualization:** Power BI, Tableau, Plotly, ggplot2, matplotlib, seaborn, presentations

PROFESSIONAL EXPERIENCE

Capital One

May. 2022 – Present

Software Engineer

Chicago, IL

- Facilitated operations for various internal teams by optimizing and managing an in-house, cloud-based ETL platform dedicated to efficient data and report processing.
- Led the development of a micro-services architecture, migrating legacy monolithic applications to use a more efficient, containerized, event driven architecture, resulting in increased scalability and easier maintenance.
- Spearheaded the enhancement of cloud CI/CD pipelines to deploy AWS services using Jenkins and Git, greatly reducing deployment time and improving overall code quality.
- Acted as the designated subject matter expert within my team, providing comprehensive knowledge and guidance on cloud and workflow architectures utilized by the internal teams we assisted.

Discover Financial Services

June. 2019 – May. 2022

Data Engineer

Riverwoods, IL

- Architected and executed scalable data pipelines leveraging PySpark and SQL to efficiently extract, transform, and load high-velocity financial data into a Snowflake data warehouse, ensuring data integrity and availability for critical business operations.
- Developed and optimized complex data models within a Snowflake environment, implementing advanced data modeling techniques to support sophisticated analytics and reporting, while adhering to stringent data governance and security standards.
- Partnered with cross-functional teams to translate complex business requirements into robust data solutions, providing technical leadership in data engineering best practices, and driving data-driven decision making through the development of self-service analytics capabilities.

EDUCATION

M.S., Data Science, Bellevue University

- Completed degree while working for *Discover Financial Services* Full-Time
- Created a website to showcase my various data science projects: <https://robert-zacchigna.github.io/>

B.S., IT - Systems Analyst/Development, Illinois State University

Honors: *Cum laude*, National Society of Collegiate Scholars

CERTIFICATIONS AND PROJECTS

- [AWS Certified Solutions Architect – Associate](#)
- [AWS Certified Machine Learning – Specialty](#)
- Major contributor to python Etrade equity trading API wrapper ([pyetrade](#))
- Personal self-hosted automated home-lab for testing and development