

# Roger Qiu

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[LinkedIn](#) | [Portfolio](#)

## EDUCATION

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UNIVERSITY OF SAN DIEGO | M.S. APPLIED DATA SCIENCE 09/2022 - 08/2024

Coursework: Statistics, Time Series Analysis, Applied Machine Learning, Natural Language Processing

SAINT LOUIS UNIVERSITY | B.S. HEALTHCARE ADMINISTRATION, INFORMATION TECHNOLOGY MANAGEMENT 08/2015 - 05/2019

Coursework: Health Operations Management, Enterprise Applications Development, Systems Analysis and Design

## EXPERIENCE

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DATA ENGINEER Boston, MA  
Cohere Health 02/2023 - Present

- Developed and optimized dozens of Python and Spark ETL pipeline jobs, reducing job runtime in Airflow by up to 90% by redesigning and creating more efficient code
- Automated in-depth exploratory data analysis (EDA) and preprocessing of millions of records daily within minutes by creating dozens of packaged functions, stored in our GitHub

DATA SCIENCE TUTOR Dallas, TX  
Varsity Tutors 06/2024 - Present

- Taught students data science concepts including statistics, Python, SQL and machine learning methods

FINANCIAL ANALYST Houston, TX  
National Oilwell Varco 10/2022 - 02/2023

- Leveraged Alteryx and SQL to create dozens of automated data pipelines and workflows, saving hundreds of hours of manual ETL processes
- Increased management decision making capabilities by developing and presenting Power BI dashboards to report financial data efficiently using visualizations and dashboard summaries

FINANCIAL ANALYST Itasca, IL  
WernerCo 10/2021 - 10/2022

- Modeled and presented monthly financial data from company income statements using IBM PA (Cognos TM1), Excel, and Power BI, guiding departments to millions in savings of quarterly budget

## PROJECTS

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### Car Price and Trim Prediction

- Utilized preprocessing methods such as normalization, one-hot encoding, TF-IDF vectorization, and Principal Component Analysis (PCA) to handle high-dimensional data. The best models, Logistic Regression for trim and Linear (Ridge) Regression for price, were optimized using GridSearchCV.

### Patient Management System

- Patient management database created using Java for data storage and Java Swing for the GUI

## SKILLS

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Python, Apache Spark, Apache Airflow, AWS Athena (SQL), Github, AWS Sagemaker, Supervised Machine Learning, Statistical Modeling, Power BI, AWS Elastic MapReduce (EMR), Jira, Java