

Machine Learning Engineer and Data Scientist with experience building end-to-end containerized analytics and machine learning applications.

## Skills

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|----------|---------|-------------------------------|
| • Scala  | • C/C++ | • Machine Learning            |
| • Python | • SQL   | • Docker/Kubernetes/Openshift |
| • R      | • Linux | • Spark/Hadoop                |

## Career Summary

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### 2021 – present      Data Scientist — IBM Expert Labs

Post-sales Technical Specialist and Delivery Architect for IBM Expert Labs. Design and deploy analytics, data warehousing and AI applications.

- Leveraged WatsonX LLMs to develop analytics engine using human language to answer business questions based on complex sales data.
- Lead design, development and deployment of enterprise AI model risk management solutions for large retailer.
- Scaled data warehousing and analytics solution for commercial bank, reducing cost and providing increased throughput and reliability.
- Developed novel ML based algorithms for auditing model behavior, improving compliance.
- Lead modernization effort to improve performance of analytics and model deployment leveraging embedded SQL programming to lower infrastructure costs and improve model development time.
- Developed and deployed containerized spark application for analyzing billions of historical transactions.

### 2019 – 2020      Data Scientist — IBM Cloud Pak Acceleration Team

Build AI solutions on IBM Cloud Paks and Openshift.

- Implement containerized software solutions for ML project including automated model deployment and risk management.
- Built and deploy Spark MLlib pipelines to analyze customer churn.
- Develop containerized database operators in Scala.

### 2018 – 2019      Data Specialist — Princeton University

Assist research team in producing visualizations, data validation and data quality pipelines, and conducting statistical analysis of Arab Barometer survey data.

- Design and deploy data quality monitoring pipelines in R and Python.
- Build pipelines for cleaning and managing Arab Barometer survey data to support automated data cleaning.
- Build dashboards, reporting and analytics pipelines. Conducted statistical analysis of Arab Barometer data and contributed to research.

## Education

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**2016 - 2019**      **Masters of Public Affairs** (University of Texas at Austin)

**2012 - 2015**      **Bachelors of Arts, Classical Languages** (Hunter College, City University of New York)

## Languages

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Native English, Professional Fluency in Arabic, Conversational in Japanese, German, French and Turkish