

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

## Competencies

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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

Build and deploy AI solutions leveraging IBM Cloud Paks and Red Hat Openshift. Architect cloud-based solutions for enterprise clients.

- Develop end-to-end model risk management solutions for AI based applications. Develop and deploy Spark applications for MRM on high volume ML models.
- Develop Kerberos authentication API for connecting Hadoop environments to support batch scoring of Spark models
- Developed Scala APIs for exposing NOSQL datastores to visualization layers for multi-cloud provider Openshift deployment application.
- Designed stress tests for containerized MRM applications - identified and closed application performance gaps.
- Developed scalable LIME Explainability modules for producing local model explanations at scale.
- Developed accerators for MRM applications to speed client integrations and in-database machine learning routines for Db2

### 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 pipleines for cleanining 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 Langauges** (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