

## Ali Khosro

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Resume Website Github Stackoverflow

### Cover Letter

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I am a proficient senior data scientist and technical project manager with a proven track record of experience as a developer, team lead, and manager for MLOps and data management solutions that includes:

- Data modeling for analytic solutions on relational or NoSQL databases that transforms transactional data into ready to use datasets by data scientists
- Building machine learning solutions and data science notebooks using statistical methods and deep learning methods
- Developing APIs to productionize ML solutions using Python or NodeJS, Kafka, NoSQL and relational DBs, and Apigee
- Deploying ML solutions on public clouds that are scalable and near real time response
- Leading data scientists and data engineers to deliver analytic solutions that materialize management vision
- Managing teams to collaborate using trunk-based CI/CD and agile development

### Recent Work Experience

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- Capgemini, Seattle WA
  - Technical PM for advanced analytics, February 2022 - September 2022
    - Led a team of data scientists to deliver marketing analytics including personalization, recommendation engine, and data visualization
    - Led a team of data engineers for cloud transformation of analytical solutions from AWS to GCP
    - Led an initiative to implement collaborative trunk-based git development including processes for design, develop, and deploy reviews
  - Solution Architect for MLOps, November 2021 - February 2022
    - Reviewed a failing prediction solution and redesigned the solution resulting in a successful project and regaining client trust

- Designed MLOps solutions in response to RFPs for various industries

- Infosys, Seattle WA

- Data Science Manager, October 2019 - November 2021

- Initiated and led a NoSQL analytical data domain project to provide data warehousing for dashboards and Jupyter notebooks
    - Owned end-to-end analytics data domain including database design and API development
    - Led a team of engineers to refactor a NoSQL solution resulting in reduced cost and simplified solution
    - Developed analytic solution using NoSQL (Cassandra and ElasticSearch) databases that handled petabyte volume of data
    - Architected and developed a real-time solution based on Cassandra, NodeJS, Kafka, and Apigee that reduced latency, cost, and bugs

- Senior Data Scientist, August 2018 - October 2019

- Coached junior data scientists to develop solutions for predictive models, statistical analysis, and data visualization
    - Extracted insights from data for ad-hoc requests by senior managers using Jupyter, Python, and Tableau
    - Developed various solutions to simplify the technology stack that significantly reduced data bleeding
    - Developed real-time data visualizations for hardware usage preventing server failures
    - Designed data modeling for NoSQL databases for analytic data domain

- Accenture, Seattle WA

- Data Scientist, December 2016 - July 2018

- Developed internal ML solutions for bug prediction, smart ticket routing, and fraud detection
    - Led a team of developers to implement and deploy the ML solutions
    - Developed an innovative algorithm for Fraud Detection of financial transactions using clustering methods which saved millions of dollars
    - Developed data modeling for relational and NoSQL databases for Hive and MySQL

- Turquoise Partners, Tehran Iran

- Quantitative Analyst, March 2015 - June 2016

- Developed a market analysis report for gold and commodity markets based on macroeconomic factors
    - Developed a quantitative market analysis report to predict the exchange rate

- Developed a macroeconomic analysis of different asset classes for asset allocation
  - Offered highly valuable analytical and quantitative suggestions to the portfolio management committee
- Northern Illinois University, Dekalb IL
  - Teaching Assistant, August 2010 - December 2014
    - Held office hours and taught complimentary classes for Statistics, Financial Economics, and Public Economics
- University of Illinois, Champaign IL
  - Research Assistant, August 2006 - June 2010
    - Automated the statistical analysis of surveys using R
    - Conducted statistical analysis for surveys
- Ashena LTD, Tehran Iran
  - Project Management Engineer, May 2003 - July 2005
    - Led technical project managers in planning, resource allocation, and tracking of their projects
    - Led an initiative to deploy MS Project Server streamlining the project tracking operations
    - Led and coached junior PM engineers to support technical project managers

## Education

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- ABD in Economics, Northern Illinois University, 2014
- MA in Applied Mathematics, University of Illinois, 2010
- MBA, Sharif University of Technology, 2005
- BS in Industrial Engineering, Sharif University of Technology, 2002

## Hands-on Skills

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- Programming Languages: Python, JavaScript, Go
- Data Management: Data Architecture, Data Modeling, RDMBS, NoSQL, Cassandra, ElasticSearch, MongoDB, BigQuery, Postgres, MySQL, Redis
- Machine Learning: Statistical Analysis, Deep Learning, Fraud Detection, Pandas, Scikit-Learn, TensorFlow, PySpark, Time Series Analysis, Regression, Factor Analysis, Clustering, Classification

- MLOps: Cloud Architecture, GCP, AWS, NoSQL, Kafka, Microservices, Apigee, Cloud Transformation
- Delivery Management: Project Management, Agile, eXtremen Programming, Solution Architecture, Git