

Milad Tajvidi

MSc, Data Science | AWS Certified

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Objective

Passionate Data Engineer with a strong background in building and enhancing scalable data pipelines and infrastructure. Seeking a junior position to contribute my expertise, enhance data-driven storytelling, and shape the future of entertainment through cutting-edge data solutions.

Professional Experience

Freelance Data Engineer

May 2024 - Present

Upwork

Remote

- Designed and built an automated end-to-end pipeline for cryptocurrency API data ingestion into an AWS data lake
- Implemented data enrichment & parsing with Python scripts
- Ensured consistency and availability of ingested data for querying using AWS Athena
- Implemented serverless data ingestion using AWS Lambda
- Fixed bugs in the API function calls scripts
- Monitored, audited and logged different metrics using AWS CloudWatch and CloudTrail
- Collaborated with other project members with Git using Agile principles

Back-end Developer & Programming Instructor

Jan 2020 - June 2022

Institute of Technology Development of Canada

Vancouver, Canada

- Designed, built and maintained college student and employee data infrastructure using AWS DMS, Redshift and S3. Coordinated with software engineers and database administrators to improve the performance of the college's data infrastructure
- Automated and scaled school's ETL pipelines for improved tuition installment form processing
- Designed and delivered lectures on programming languages, front-end development, databases, SQL, and algorithms
- Facilitated in-class activities and provided constructive feedback using hands-on projects. Continuously improved educational content and delivery while directly communicating and providing feedback reports to college head
- Collaborations with feedback through code reviews with back-end developers

Research Assistant

2013-2017

University of Calgary

Calgary, Canada

- Researched and compared the efficiency of different methods on the digital pre-distortion of radio frequency power amplifiers

Relevant Projects

■ Real-time Streaming Pipeline for Sentiment Analysis of Yelp Customer Reviews

- **Tools used:** Python, Spark, Kafka, Elasticsearch, Kibana
- Designed and implemented an end-to-end real-time streaming pipeline
- Performed sentiment analysis on ingested customer reviews
- Stored results in Elasticsearch for querying and visualization

■ Automated Financial Form Processing using Azure for Document Intelligence

- **Tools used:** Python, Azure ADLS Gen2, Logic App, Functions App, Cosmos DB, PowerBI
- Developed a solution to automate PDF form processing using Azure AI Document Intelligence
- Implemented data extraction, storage in Azure Cosmos DB, and visualization with Power BI
- Enhanced operational efficiency while reducing costs

Certifications & Skills

- Completed certifications:
 - AWS Machine Learning Specialty
 - AWS Associate Solution Architect
 - AWS Associate Cloud Developer
 - Microsoft Power BI Data Analyst
- Certifications in progress:
 - AWS Data Engineer Associate
- Advanced skills: Python, Spark, NoSQL Databases, Airflow, Docker, Kubernetes

Education

MSc, Data Science University of Colorado Boulder	2023-2024 Colorado, USA
Information Technology with Co-op Diploma <i>Concentration in System & Embedded Programming</i> Institute of Technology Development of Canada	2018-2020 Vancouver, Canada
BSc, Electrical Engineering Sharif University of Technology	2007-2012 Tehran, Iran

Volunteer Activities

Presenter Generative AI Coding Group	Aug-Sep 2024 Remote
■ Prepared and delivered codes and presentation slides on VAEs and diffusion models for a generative AI coding group	

Awards & Achievements

Annual Progress Report Excellence Award University of Calgary, Calgary, Canada	2013
Special Admittance Scholarship University of Calgary, Calgary, Canada	2013
Ranked 8th out of 150,000 undergraduate students National Undergraduate University Entrance Exam of Iran	2007
First-phase acceptance and ranking within the top 800 Iranian National Mathematical Olympiad	2004-2006