Jiahua Duojie

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Data Engineer| Full-Stack Developer | AI Enthusiast

PROFILE SUMMARY

Experienced Data Scientist & Full-Stack Web Developer with a strong foundation in .NET and Node.js frameworks. Adept at developing cloud-based data pipelines, data warehouses, and deploying machine learning models into production. Skilled with modern ML frameworks including TensorFlow, PyTorch, and scikit-learn. Specializes in integrating Large Language Models (LLMs) and Natural Language Processing (NLP) techniques to create cognitive solutions that address complex real-world challenges.

SKILLS HIGHLIGHTS

Data Engineering & Cloud
- Azure Data Factory, Databricks, Delta Lake, Apache Spark, Airflow, Apache Kafka
- AWS, Azure Fabric, Azure UI Search API,
- Google Cloud, BigQuery, Kubernetes

Languages/Frameworks
- Languages: Python, JavaScript, PHP
- Frameworks: Django, Vue.js, React
- DevOps: Git, REX Deployment, Docker, MLOps, CI/CD

AI & Machine Learning
- Frameworks: PyTorch, TensorFlow, Scikit-learn
- Applications: RAG, Langchain, LlamaIndex
- Tools: Azure ML, Hugging Face, MLflow

Databases & Analytics
- Databases: PostgreSQL, MySQL, MongoDB
- Visualization: Power BI, Tableau, QGIS
- Business Intelligence: NumPy, Pandas, plotly, geopandas, dask

EDUCATION

Data Science – Master's Program   Feb 2023 – Jun 2025(expected)
Lucerne University of Applied Science and Art, Lucerne

Computer Science – Undergraduate   Sep 2012 – Jan 2017
Nankai University, Tianjin

WORK EXPERIENCE

Project based learning | project based learning, HSLU – Lucerne

https://www.linkedin.com/in/duojie-jiahua

- Data cleaning and Tariff classification model for product of On Holding AG (Python, MongoDB, ML models)   Aug 2024- Jan 2025
- Data warehouse and visualization of Swiss shared mobility (Python, Postgress, AWS lhamda, Airflow, redshift, Tableau)   Oct-Dec 2024
- Master thesis project "Development of a tourism data chatbot to access and interact with complex data" (Langchain, Airflow, RAG)

Data Engineer | Qinghai Big Data Co., Ltd — Xining   **March 2020 - January 2023**

Technical Stack: Azure Data Factory, Databricks, Apache Spark, Python, PostgreSQL, C#, .NET Core, Blazor, ReactiveUI, Docker

- Architected high-performance data pipelines using Azure Data Factory and Databricks for real-time processing
- Engineered ETL workflows that transformed raw data into analytics-ready formats with 40% improved efficiency
- Developed responsive Blazor dashboards with ReactiveUI for business intelligence reporting
- Automated monitoring systems using Python and Azure Functions to ensure data pipeline reliability
- Built ML pipelines integrating IoT sensor data with AI models, reducing system downtime by 35%

Project Team Leader | Qinghai Dari Media & Tech Co., Ltd — Xining   June 2017 - February 2020
Technical Stack**: Node.js, React, Microsoft .NET, MySQL, Odoo**
- Led development team in designing enterprise data warehouse architecture and REST API ecosystem
- Spearheaded development of custom e-commerce platform and content management system
- Orchestrated successful integration of Odoo ERP solution with existing business systems
- Implemented agile methodologies that significantly improved project delivery timelines
- Mentored junior developers in modern web development practices and architectural principles

Web Developer & Sales Manager | Qinghai Himalaya Travel Service — Xining. **March 2012 - May 2017**
Technical Stack: Drupal, PHP, HTML, CSS, MySQL, SEO Tools
- Developed a responsive website with custom booking modules.
- Optimized SEO strategies, increasing web traffic and conversions.
- Automated email marketing and integrated secure payment systems.
- Built a reporting system to track sales performance.

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