MA, Xiaoqi (Data Engineer)

📞 (+86) 18721201615 ✉ xiaoqima2013@gmail.com **in** **github**

BASIC INFORMATION

Date of Birth: Aug 1994   Place of Birth: Hangzhou, China   Education: Master of Science

WORK EXPERIENCE

Huawei Enterprises Telecommunication Technologies Co., Ltd - Data Engineer   Jun 2020 – Present

- Served as a Data Engineer & Data Analyst
- Over 3 years of experience in data engineering, machine learning, and data warehouse
- Rich experience in Python (as well as Java), SQL, ML algorithms, Big Data ecosystems (i.e. Hadoop, Hive, Spark)

EDUCATION

RWTH Aachen University-Media Informatics - Master   Aug 2017 - Dec 2019

Technische Hochschule Lübeck-Information Technology - (Dural Degree) Bachelor   Feb 2016 - Jun 2017

East China University of Science and Technology (ECUST)-Electrical Engineering - Bachelor   Aug 2013 - Feb 2016

PROJECT EXPERIENCE

OmniAdvisor - Automated HyperParameter Tuning   **Jun 2022 - Jun 2023**

- Orchestrated the entire design and development of OmniAdvisor, an intelligent system for end-to-end parameter tuning of Spark and Hive tasks within online systems, leveraging AI algorithms
- Accomplished data preprocessing, data cleansing and other data workflows
- Constructed ML pipelines, utilizing CNN, Random Forest algorithms

🔗 **OmniMV - Intelligent Recommendation System for Materialized Views**   **Jun 2021 - Jun 2022**

- Designed and implemented ETL pipelines, targeting at Spark/ Clickhouse/PostgreSQL
- Generated materialized views utilizing ML algorithms (e.g. xgboost) to enhance SQL execution efficiency
- Rewritten SQL physical plan to improve query execution efficiency

🔗 **Data Analysis and Performance Optimization**   **Jun 2020 - Jun 2021**

- Hardware statistics analysis, such as CPU utilization, disk I/O usage, memory usage and network bottlenecks
- Performance bottleneck analysis for Big data components, such as Spark, Hive, Hadoop
- Hotspot function identification and optimization
- Fine-Tuning for Software, e.g. Spark, Hive, Clickhouse, Presto and etc.

SKILLS & CERTIFICATES

Skills

- Proficient use of Python (Java)
- Mastery of SQL for data engineering
- Extensive knowledge of Machine Learning Algorithms
- Hands-on experience with Spark as well as other Big Data components
- Good understanding of Linux, Git, databases

Languages

- Chinese (Native), English (Fluent), German (A2)

Awards

- The Future Star of the Year in Haiwei (2022)
- President's Commendation Awards in Haiwei (2020-2023)

Interests

- Hiking, Swimming, Travelling