

# Mark Wan (万晶)

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## EDUCATION

### Shanghai Jiaotong University

Bachelor of Biology

Shanghai

Sep. 2003 – Jun. 2007

## EXPERIENCE

### Sr. Staff Engineer(L26)

Nov. 2020 – Present

Adevinta (ebay classifieds group)

Shanghai

- Design and maintain the data platform based on Airflow and Spark running on EKS.
- Develop and maintain in house Spark version with AWS glue, delta.io, multi-arch, and cloud native support.
- Lead and develop in house Notebook solution using React and go based on Jupyter and VSCode.
- Review and optimize the AWS cloud cost to meet the budget.

### Data Engineering Manager

Sep. 2018 – Oct. 2020

CraiditX

Shanghai

- Lead the team on developing the data product for bank customers.
- On site deploy data product on customer's on-premise infrastructure.
- Coordination on people resource and communication between multiple projects.

### Sr. Data Engineer

Jun. 2015 – Aug. 2018

- Created the data warehouse platform from scratch by using airflow and CDH on AWS.
- Created an unified data log service to collect data from site application.
- Created BI dashboard by using Superset. BU also have the flexibility to explore and create new report by self-service.
- Transform data and generate features for machine learning data model applications.

### Sr. Software Engineer(L24)

Mar. 2011 – May. 2015

ebay

Shanghai

- Developed and maintained billing analytic data pipelines using UC4(Appworx) and SAS.
- Maintain and batch support on bi-monthly ebay billing run.
- Developed self-service tools to help BU to retrieve data from billing system.
- Automated workflow for billing operations.

### ETL Engineer

Sep. 2010 – Mar. 2011

Alibaba Group

Hangzhou

- Developed and maintained data warehouse platform for Ali-Finance.
- Created data pipelines to generate features for online credit loan AI model.

### DW Developer

Jul. 2007 – Sep. 2010

ebay (dx solution contractor)

Shanghai

- Build ETL process on ebay Teradata platform.
- SQL tuning and batch support on data warehouse data pipelines.

## PROJECTS

### Notebook Scheduling | AWS(EKS), Kubernetes, Argo Workflow, React, Go

Jul. 2023 – Jun. 2024

- Use Argo Workflow to run jupyter notebook files recurrently.
- Use kubernetes operator to store and manage the schedules.
- Web interface provided to let the user manage all the schedules.

### DWH Migration | AWS(EKS, S3, Glue), Airflow, Spark, Kubernetes, Python

Jun. 2021 – Jun. 2023

- Use EKS as the foundation of the infrastructure, Airflow as the workflow orchestration engine, Spark as the main process engine. All services are cloud native.
- Created base docker image containing all of the tool chains and ETL handlers, which provided as the default run time of the all ETL jobs.
- Created Spark image with patches to connect to AWS Glue as hive metastore. All
- Design and implement the CI/CD service for the new platform.

### AI Data Service | Python, Go, CDH(Hive), Java

Jun. 2016 – Aug. 2018

- Use Python / Go to build backend data service to serve the online ML model.
- Create data logging service to capture the intermedia and final result from ML model, which will be stored on Hadoop.
- Process the data from log, along with other sources offline on Hadoop using hive.

## TECHNICAL SKILLS

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**Languages:** Python, SQL (SparkSQL / Hive), Go, Java, JavaScript, HTML/CSS

**Frameworks:** Spark, Hadoop, Flask, pandas, Matplotlib, Airflow, Argoflow, React, Beego, Springboot

**Developer Tools:** Git, Kubernetes (EKS), Docker, AWS, Datadog, Grafana