HAOTIAN ZHOU

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EXPERIENCE & PROJECTS

Amazon

SDE Fulltime

Jul 2020 - Present

Seattle

Seller LeveL CIV1 for Amazon.in

Provide CIV estimates for more than 120,000 sellers in India separately

- Build entire data pipeline from ... to automated the pipeline based on AWS Step Function in Python
- Design redshift table; implement ETL jobs in hql and scala to load data via EMR
- Refactor RESTful Service API to support seller-level granularity. use cache to increase

CIV Data Pipeline Infrastructure Optimization

Greatly improved the performance, reliability and scalability of internal systems

- EMR-DDB Migration: DynamoDB import via EMR, 7 times faster
- Lambda Function support, NAWS migration, get rid of hosts, severless

Contribution Profit Boost Pipeline Automation

Reduced manual operation by 80%. Shortened the entire process from 1 month to 5 days

- Coordinate & implement this automated pipeline across multiple teams(...)
- use S3, StepFunction, Pandas, save 70% of manual works during this process

Amazon

SDE Intern

May 2019 - Aug 2019

Seattle

CIV Backend 2.0 Prototype

Designed and implemented extendable Data pipeline backend built fully on Native AWS

- Built data pipeline backend with centralized workflow control based on AWS Step Function
- Developed new features by integrating multiple AWS Services: Lambda Function, CloudWatch, SNS, EMR

Carnegie Mellon University

Capstone Project

i Jan 2020 - May 2020

Pittsburgh

Chatbot to Chatbot QA system

Automated chatbot that can make outbound call to IVR system, answer IVR² questions & transfer call back to human

- Integrated with Twillio APIs to make outbound / inbound call and get audio streams
- Integrate with Google Cloud Speech-to-Text API to transcribe audit stream in realtime
- Applied NLP technologies to detect questions, search & build answers according to information stored in database
- Sponsor Scholarship Winner

CAREER OBJECTIVE

AREA OF INTEREST

Software Development

NLP

Cloud C

Data Engineering

Machine Learning

Deep Learning

TECHNICAL SKILLS

Python Java C

Scala

JavaScript Apache Ant

SQL & HQL

AWS Git Spark & Hadoop DeepLearning

NLP
Distributed System

PERSONAL SKILLS

Quick Learner

Teamworking

Work w

EDUCATION

M.S. Artificial Intelligence Carnegie Mellon University

2018-2020

GPA: 3.95

B.E. Computer Science
Harbin Institute of Technology

2014-2018

☞ GPA: 3.75

 $^{^{1}}$ CIV : Consumer Instock Value, an economic concept that evaluates long-term impact of a retail offer instock status change

²IVR: Interactive Voice Response System