

DATA ENGINEER · DATA SCIENTIST

🛮 513-319-5688 | 💌 haohan.zhao@gmail.com | 🛅 haohanzhao | 🌴 Seattle, WA | No visa sponsorship needed

Industrial Experience _____

Amazon Inc. Seattle, WA

DATA ENGINEER

- Iterate Amazon Seller Central e2e user experience by working with SDEs and PMs to define, implement, monitor and display metrics to Amazon 3rd Party Sellers
- · Build ETL data pipelines from online prod to offline data lake, drive communication with internal partners to schematize and automatically generate reports & dashboards for decision-making.
- Drive new feature development in Amazon Seller Central using hierarchical clustering, train and deployment model in AWS service, summarized findings and effectively communicated in a compelling way to senior leaders and drove business actions.
- Navigate engineering teams through presentation of data-based recommendations, communicating state of business, experiment results and implement best practices.

Foursquare Labs Inc. Seattle, WA

DATA SCIENTIST Nov. 2020 - Aug. 2021

- · Conducted product iteration and validated the effectiveness on our attribution portal new features by collaborating with PMs.
- Performed campaign monitoring using Waze as 3rd party measurement solution partnership, interpreted campaign result metrics such lift, total visits, incremental visits, cost per visits and cost per incremental visit using z-test and machine learning models to derive insight for future customer targeting.
- · Actively built processes and tools to make data more accessible and interpretable, communicated with internal partners to define appropriate data reports and dashboards that became integral to the decision-making process.

American Express (EXL Service)

New York City, NY

Sent 2021 - Now

SENIOR DATA CONSULTANT

Sept. 2017 - Nov. 2020

- Build a K-means model using scikit-learn to segment customers with different AMEX marketing shares, implement different marketing strategies with the existing online first touch and linear attribution models.
- Predicted 2019Q4 short-term debt for small business owner by developing an XGboost model using meachine learning platform
- Created campaign performance dashboards, conducted loan and application performance analysis using Snowflake and Tableau, presented results to senior management.

AXCESS Financial Cincinnati. OH

RISK ANALYST, PREDICTIVE MODELING & CREDIT RISKS MANAGEMENT

Dec. 2015 - Sept. 2017

- · Create dashboard using SQL and data pipeline for visualized fraud detections tools and customer behavior analysis
- · Use Regex to clean JSON data with Hive functions, create cleaning logic for Unicode character
- · Built robust validation to verify the accuracy and stability of the models, on in-sample and out-of-time data, avoid inaccurate prediction and low model stability

Projects

Drone Grocery Delivery Service

Georgia Institute of Technology

- Implement a client-side drone grocery delivery management system
- Develop GUI using Java Swing and connect to MySQL database using Hibernate

Game Swapping Platform

Georgia Institute of Technology

- · Build a cloud-based web app for game swapping
- Create front-end UI using HTML, JavaScript and CSS. Impove user experience using jQuery and Bootstrap libraries
- Use web.py framework to build backend, connect to MySQL database, deployed in AWS

Skills

Programming Language Java, PHP/Hack, TypeScript/JavaScript, HTML, Python, SQL/NoSQL, GraphQL, Go, Shell, LATEX Frameworks & Software React, Angular, Node.js, HTML/CSS, MongoDB, PostgreSQL, Guice, Spring, Git/Mercurial

Academic Degrees

2022 M.S. in Computer Science, Machine Learning Concentration, Georgia Institute of Technology

Cincinnati, OH

2015 M.S. in Financial Mathematics, University of Cincinnati 2014

B.S. in Applied Mathematics, Xiamen University

Xiamen, China

Remote