Jiehwan Yang

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EDUCATION

University of Minnesota at Twin Cities   September 2015 - May 2022
- Major: Management Information Systems
- Minors: Computer Science, Statistics, Business Analytics

GPA: 3.78/4.00

Languages: Python, R, SQL
Technologies: Airflow, Azure Data Factory, Synapse, Elasticsearch, RabbitMQ, Tableau, PowerBI
Certificates: Azure Data Engineer Associate, SQL Developer certificate, Linux Professional certificate

PROFESSIONAL EXPERIENCE

Data Scientist   June 2022 - Present
Coyote Logistics (UPS Company)   Chicago, IL (remote)
- Migrated on-prem model trainer to cloud by dockerizing and deploying pricing model trainer via Azure CI/CD pipeline for seamless deployment and easier back-testing in cloud environment. Integrated Airflow to trigger model trainer.
- Developed event-triggered ETL pipeline to ingest daily forecasts stored in CosmosDB into a cloud data lake and push latest forecast to on-prem SQL database using Pyspark, Databricks, Azure Synapse, Data Factory, and stored procedure.
- Developed multiple databricks ETL pipeline and multi-page streamlit dashboard to evaluate pricing model's performance over time.
- Created an Airflow DAG for automated data quality tests with failure alerts.

QA Data Analyst Intern   July – August 2021
Electronic Arts (EA)   Seoul, South Korea
- Developed a web application that finds similar bugs in the past using TF-IDF text mining technique – expected to reduce 40% in bug search time and 10% less duplicate bug tickets
- Extracted 15,000 bug history data and created a Power BI dashboard to evaluate software engineer's bug fix performance based on four KPIs: number of bugs fixed, bug fix time taken, bug criticality, and bug fix fail rate.
- Presented my projects to 50+ stakeholders from multiple levels of technical expertise in Asia and Korea studio analytics meeting.

Statistical Data Analyst Intern   May – August 2019
LINE Corporation   Seoul, South Korea
- Built and managed dashboards to support overall game health, user experience and provided insights into historical, current, and projected sales.
- Saved 30 minutes of writing manual daily reports by automating query execution in HiveSQL and Python
- Communicated daily with game planners for user analysis and improvements for a newly published game.

Data Scientist Intern   May – August 2016
Coyote Logistics (UPS Company)   Chicago, IL
- Developed an end-to-end Carrier Recommendation web application integrated with a predictive model on cancelled loads by using Python, C# .NET, and ZeroMQ.
- Built a random forest model to predict cancelled loads that sales representatives can refer to before making a contract with carriers, resulting in expected savings of $140,000 per week.
- Streamlined server and client communication through ZeroMQ and handled > 3.5 million records of data.

Business Intelligence Engineer Intern   June – August 2015
Coyote Logistics (UPS Company)   Chicago, IL
- Developed a Self-Reporting Dashboard Service tool using Elasticsearch ELK Stack, which allowed non-technical users to create their own KPI dashboards – expected to reduce 20% of report requests to the BI team.
- Built a web application with end-to-end data pipelines using Elasticsearch ELK Stack and RabbitMQ
- Conducted interviews and surveys to find out the end users' experience with the existing reporting service and reflected their opinions on the project.

LEADERSHIP EXPERIENCE

Sergeant   Seoul, South Korea
Republic of Korea Military Police   March 2017 – December 2018
- Facilitated better communication between army officials and foreign diplomatic offices in English.