

# EDDIE (BO JIAN) HO

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## EDUCATION

UNIVERSITY OF CALIFORNIA - SAN DIEGO

B.S. in Data Science • Minor in Cognitive Science • GPA 3.8 • Provost Honors

San Diego, CA

Sep 2021 - Mar 2024

## SKILLS

**Programming Languages:** Python, R, Scala, SQL, Shell

**Machine Learning Stack:** Pytorch, Pytorch Lightning, Tensorflow, Keras, XGBoost, scikit-learn, Scipy, numpy, pandas

**Big Data Stack:** Apache (Hadoop, Spark, Hive, Kafka, Airflow), dbt, BigQuery, ETL/ELT/ETLT Pipeline, snowflake, Data (Warehouse, Lake)

**Cloud/Database Stack:** AWS (Athena, S3, Glue, EC2, EBS, Kinesis, Lambda), Azure (Blob Storage, DataFactory, Devops), Amazon Redshift, Snowflake, MS SQL Server, PostgreSQL, MySQL, MongoDB, Cassandra

**Data Visualization:** Tableau, Amazon Quicksight, Looker, plotly, seaborn, matplotlib, Power BI

## PROFESSIONAL EXPERIENCE

LESSO AMERICA INC., SUPPLY CHAIN MANAGEMENT (SCM)

Corona, CA

Data Scientist

May 2024 - Present

**Description:** LESSO America is a leading player in the field of plumbing and irrigation. The SCM project enhances the efficiency of the supply chain by developing data-driven models that predict demand, optimize inventory levels, and reduce lead times. As a Data Scientist my responsibilities lie in developing and productionalize data science models as products to optimize business decisions, establishing claims forecasting models to reduce costs.

- Applied **machine learning** algorithms with **scikit-learn** and **deep learning** with **Pytorch** for claims forecasting models, such as **K-means Clustering**, **XGBoost**, and **LSTM** algorithms to predict demand and inventory management resulting in a 30% improvement in inventory turnover and a reduction in excess stock by 25% within 3 months
- Establishing model automation pipeline including data preprocessing, predictive model scoring, validation, and data population, reducing 50% processing time and 60% resource usage
- Utilized **Apache Airflow** for batch processing, loading transformed data into **AWS S3** as a centralized data repository, and subsequently utilized cloud-based data warehouses with **dbt**, **Amazon Redshift**, and **Snowflake** to handle large volumes of structured and unstructured supply chain data for storage and analytics
- Architected optimized **data architecture strategies**, such as **Snowflake schema** and **virtual warehouse** within **Snowflake**, improving data query performance by 40% and reducing storage costs by 25%
- Developed a comprehensive **data governance framework** that included secure **role-based access controls (RBAC)** and **data masking** to ensure that sensitive data in Snowflake was protected
- Implemented interactive dashboards with **SQL**, **Power BI** and **Tableau** provide real-time insights into supply chain performance, including demand forecasts and inventory levels to identify **key performance indicators (KPI)**

UC SAN DIEGO, ANALYTICS PORTAL

San Diego, CA

Student Engineer

Dec 2023 - Mar 2024

**Description:** Analytics Portal is a centralized analytics platform which empowers university departments by providing real-time insights and data-driven decision-making capabilities. My role as a student engineer is responsible for data integration using GraphQL, data pipeline development, and dashboards development.

- Developed custom resolvers in the **GraphQL** schema to handle complex data queries and relationships across different departments; ensured the **GraphQL API** is secure and performant, implementing access controls and optimizing query execution to handle large datasets
- Utilized **AWS S3** as the central storage repository for raw and processed data, and integrated **AWS Glue** to orchestrate and automate data transformation, creating a catalog of metadata to facilitate easy data discovery
- Designed and developed visually compelling dashboards in **Tableau**, incorporating advanced features such as drill-downs, filters, and calculated fields to enhance user interactivity
- Utilized **Agile** methodologies and tools to effectively prioritize and manage quantitative analytics tasks, ensuring efficient utilization of resources and meeting project deadlines

AVANADE, ENTERPRISE DATA WAREHOUSE (EDW)

Los Angeles, CA

Azure Data Engineer Intern

Dec 2022 - Mar 2023

**Description:** Avanade is the leading provider of innovative digital, cloud and advisory services, with over 59,000 employees in over 26 countries. The EDW consolidates data from disparate sources, centralizing data as a single source of truth. As a Data Engineer Intern, I worked on the data storage solution like Azure Data Lake integration, tiered storage strategy, and data partitioning.

- Leveraged **Azure Data Lake** for scalable, cost-effective storage of raw and processed data, enabling future data exploration and advanced analytics
- Implemented a tiered storage approach with **Azure Blob Storage**, categorizing data into **Hot**, **Cool**, **Archive Tier** based on frequency of access and business importance, optimizing storage costs while ensuring quick access to critical data
- Applied partitioning techniques with **Horizontal**, **Vertical**, and **Range Partitioning** to manage large datasets efficiently, improving query performance and reducing resource consumption
- Developed **ETL pipelines** using **Azure Data Factory** and **SSIS**, automating the data ingestion process from on-premises and cloud-based sources, including CRM systems, ERP systems, and external APIs

## CERTIFICATES

Azure Data Engineer

Aug 2024

IBM Data Engineering

Jun 2023