

## LUCAS BUI | DATA ENGINEER

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Sr Data Engineer with years of experiences in EV industry and manufacturing. Create BI, data tools and applications with the latest industry technology to give company insight, trend and focus analysis.

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### EXPERIENCE

#### ***Sr Data Engineer | Tesla | Austin TX | 2021 - 2024***

- Leading BI Team to establish and manage a full data spectrum supporting the manufacturing operations for the Remanufacturing department.
- Create 100+ ETL, data pipeline and 10+ data schema for injecting raw, NoSQL data to the MySQL Data warehouse with Relational Database management System (RDBMS) for manufacturing operation with high data transaction volume and velocity.
- Collaborated with Engineers, Executives to create Tableau dashboards, data tools for operations insights, KPI and in depth analysis for optimization. Build over 100+ dashboards in many technology Tableau, PowerBI, Superset and ReactJS for monitoring, inventory, quality and engineering team.
- Setup Airflow - ETL Data scheduling tool with K8s for scaling department BI and ETL pipeline to support more than 200+ ETL pipeline across functional teams with minimum downtime.
- Create web applications using Flask and Django for department operation to efficiently manage inventory control and failure analysis which saves ~\$2M per year for multiple Remanufacturing sites and products.
- Using Python and Cronnjob to create HV Battery pre-evaluation script to reduce diagnostic and repair lead time for 4+ core vehicle components with 1200+ return daily in 3 continents. Using Matlab to create application CAC Estimator to reduce lead time to true Battery Capacity Value globally. No waiting time for Battery capacity generator. (Matlab)
- Using Kafka cloud streaming platform to build classification ML model and feature engineer for optimizing battery life cycle to improve Tesla vehicle service experience by reducing lead time by 80%.

#### ***Data Analyst - BI Engineer | Tesla | Fremont CA | 2018 - 2021***

- Analyzed manufacturing data for executive dashboards, enhancing decision-making across departments.
- Developed ETL scripts with Airflow for real-time insights, supporting strategic initiatives at Tesla.
- Collaborated with engineers on battery algorithms, boosting battery life by 45%.
- Introduced data visualization methods, improving strategic planning and stakeholder comprehension.

#### ***Process Engineer | Tesla | Fremont CA | 2013 - 2018***

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### CERTIFICATION

#### ***Front End Web Developer Certificate - ReactJS - Thinkful - July 2024***

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### EDUCATION

#### ***BS, Management Information System (MIS) | San Jose State University | San Jose, CA | 2018***

#### ***AA, Business and Computer Management | DeAnza College | Cupertino, CA | 2014***

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### SKILLS

**Front-end:** HTML, CSS, JS, JQUERY, REACTJS

**Back-end:** Python, Django, RestAPI, Flask, NodeJs, SQL,, Mathlab

**Data:** MySQL, SQL Server, MongoDB, Postgres, Ariflow, R, Tableau, Superset, PowerBI