

HUY BUI (LUCAS)

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PROFESSIONAL SUMMARY

Results-driven data engineer with years of experience in the EV and manufacturing industries. Skilled in building scalable data solutions, architects and applications. Thrilled to continue exploring my data career by delivering impactful projects.

WORK EXPERIENCE

Data System development engineer, Slate Auto, Troy, MI (Remote position)

2025 - present

- Established data strategy and AI for the main system such as E-Commerce, Website and vehicle telemetry
- Created Technical design documentations for system data pipeline with technical detail of data system in AWS ecosystem.
- Architected CI/CD pipeline for dataflow from ELT/ETL to Airflow and final dataviz products with Github and Tableau API.
- Managed key KPI Tableau dashboards for executives with high visibility on main company milestones.

Sr Data Engineer, Tesla Inc, Austin, TX

2021 - 2024

- Managing a full data spectrum supporting the department manufacturing operation from data extraction, transformation , wrangling , analysing to visualizing with latest data viz tools such as Tableau, ReactJS.
- Developed and orchestring department data pipeline with various data warehouses, lakehouse sources. Streamline high velocity and data volume with Airflows and dbt. Reduced 80% redundant ETL code with high level of data transparency.
- Elevated Airflow and set up backend CI/CD for migrating ETL script from traditional VM to the cloud. Created containers and deployed in internal Kubernetes server for scaling department BI and ETL pipeline with minimal downtime.
- Deployed full stack web applications using FastAPI and ReactJS for managing production inventory control of the department.
- Performed battery failure analysis which reduced company logistic cost up to ~\$2M annually in 3 continents.
- Used Python for creating HV Battery pre-evaluation script to reduce diagnostic and repair lead time for 4+ core vehicle components with 1200+ product return monthly in 3 continents. Department cost saving project.
- Designed and implemented scalable data pipelines and backend API services with AWS Lambda, API gateways and S3 for service team to proactively identify battery and drive unit problems.
- Provided training and project management with interns, coworkers for best data practices and troubleshooting failures during data injection and optimization. Using JIRA for agile data project management and collaboration.
- Implemented Decision tree ML model for optimizing battery testing to prevent Thermal runaway issue with high accuracy and precision. Eliminate risk of product return and fire by 90% which saved the company millions in logistics.

Business Intelligence (BI) Engineer, Tesla Inc, Fremont, CA

2018 - 2021

- Created executive reports with high insightful dashboards from productions, finance to engineering.
- Collaborated with engineers, executives and production team to deploy 100+ dashboards with mainstream data viztools such as Tableaus, PowerBI and Superset to achieve ambitious KPIs, indepth analysis projects with high accuracy and efficiency.
- Perform daily data injection from lakehouse data sources to department data warehouses with ETL and ad-hoc applications.
- Setup standard central code repo in Github for data testing and code deployment which increase team productivity by 2x.

EDUCATION

- **Bachelor of Science**, Management Information System, San Jose State University, CA

May 2018

CERTIFICATIONS

- **AWS Cloud practitioner**, AWS
- **Front end web development certification**, Cheggskill

March, 2025

July, 2024

SKILLS

- **Database and ETL**: DynamoDB, PostgresDB, Ariflow, dbt, Snowflake, Tableau, PySpark
- **Programming language**: Python, SQL, Javascripts, Golang, R, Typescript
- **Cloud platform**: AWS Spectrum (S3, Lambda, Glue, DynamoDB and Redshift)