

Kuldeep Luvani

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SUMMARY

Senior Software Engineer with 7+ years of experience designing scalable and reliable backend systems along with strong background in event driven systems, distributed data pipelines and ETL workloads.

EXPERIENCE

ZEFR – Senior Software Engineer (Data Platform) (Apr 2020 – Present)

Working in a data engineering team responsible for ad targeting as well as measuring Brand Suitability and Safety for ad campaigns across social media platforms and thus upholding customers' brand value.

- Built an extensive reconciliation workflow using **Airflow** and **Snowflake** increasing SLAs (and thus the revenue) of measurable ad impressions from 80% to 99.9%.
- Architected **generic deployment templates** simplifying onboarding of new platforms to **a few hours** while also **increasing developer productivity** by enabling deployments of personal environments with minimal effort.
- Optimized the measurement pipelines to handle **4x ads impressions** during peaks without performance degradation using **Kubernetes** and **Kafka**.
- Developed CI/CD workflows using **GitHub Actions** and **ArgoCD**, reducing deployment time by half.

AT&T (ITJobs, Inc.) – Software Developer (Oct 2018 – Apr 2020)

Worked in the Chief Data Office, responsible for evaluating new AI/ML technologies and onboarding them company-wide to enhance feature development and productivity.

- Developed advanced predictive models (LSTM, XGBoost) to optimize churn reduction and free cash flow, resulting in **\$150M annually** in savings.
- Developed Matrix Factorization Based Vendor Recommender System that can identify best vendors for the chosen item category. Specifically, used **Alternating Least Square (ALS)** to train and build the recommender system.
- Responsible for the Analytics & Data Science Tools Evaluation through building machine learning models on tools like **Zeppelin**, **RCloud**, **H2O Driverless AI** and **AWS Deep Learning AMIs**.

Funguana Inc. – Data Scientist (Jan 2018 – Oct 2018)

Designed and implemented data-driven trading strategies, incorporating user-defined risk parameters, to optimize portfolio performance while managing risk effectively.

- Developed a fully automated cryptocurrency trading bot using **LSTM models**, **technical indicator analysis**, and time-series forecasting.
- Conducted data mining and analysis to predict market trends, leveraging **Google Trends** and other forecasting techniques to optimize trading strategies resulted in increasing trading **profitability** by **20%**.
- Worked on forecasting and data mining techniques, such as linear and non-linear regression analysis, neural networks or support vector machines for trading signals to increase the amount of profit and decrease the investment risk.
- Integrated external APIs and optimized database queries to enhance the system's data retrieval and processing capabilities, reducing execution time by **15%**.

EDUCATION

Masters of Science in Computer Science – California State University, Long Beach (Dec 2017)

Bachelors' of Technology in Electronics – Charotar University of Science and Technology (May 2013)

SKILLS

- **Programming Languages:** Python, SQL, Shell Scripting, Java
- **Data Engineering & Processing:** Apache Airflow, Snowflake, Kafka, Redis, ScyllaDB, dbt, Grafana, Spark, Flink, Hadoop, Elasticsearch
- **Cloud & DevOps:** AWS, GCP, Kubernetes, Helm, Terraform, Docker, CI/CD (GitHub Actions, ArgoCD, Spinnaker)