

REZA RAJAN

Software Engineer - Data Systems

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Experience

Mochi - Co-Founder / Platform Engineer

Dec 2022 - Present

- Built the forge-manager application and Kubernetes Helm charts to enable fully automated, highly-available Cardano node deployments, eliminating manual coordination and supporting continuous operation across all nodes.
- Authored comprehensive documentation for the forge-manager application, including functional and non-functional requirements, system architecture, and operational workflows.
- Migrated infrastructure to Talos Linux, creating a fully declarative provisioning system that supports infrastructure-as-code.
- Implemented CI/CD pipelines with automated validation, reducing setup and upgrade times from 3+ hours to under 15 minutes with 100% successful deployments.
- Implemented real-time monitoring and alerting with Grafana and Prometheus, cutting incident response time by ~60%.

myKaarma - Data Engineer (Cloud)

Jul 2023 - Jan 2024

- Designed and contributed to a cloud data lakehouse architecture on AWS to centralize and scale analytics and reporting.
- Built and maintained ETL/ELT pipelines using Python, Apache Airflow, AWS S3, AWS Glue and Redshift to ingest, transform and store cleaned event and transactional data.
- Automated scheduled customer report generation and delivery using AWS Step Functions and Lambda with SLA monitoring and alerting.
- Delivered a PoC batch processing pipeline using Airflow + PySpark that reduced message data processing time by ~70% compared to a stored-procedure based approach; validated performance and reliability metrics before handoff.

myKaarma - Data Engineer (Analytics)

Feb 2022 - Jul 2023

- Collaborated with external stakeholders to capture reporting requirements and translate them into actionable technical specifications for the data team.
- Developed stored procedures for the reporting warehouse, optimizing several with indexing strategies to achieve up to 50% reduction in query execution time.
- Integrated multiple operational and external data sources into Power BI, enabling standardized dashboards that reduced manual reporting workload for the analytics team.
- Partnered with engineers to improve data quality checks and streamline ETL processes feeding the reporting warehouse.

Certifications

AWS Certified Data Engineer

Amazon - In-Progress

Data Engineer

Udacity - 2024

Self-Driving Car Engineer

Udacity - 2021

Data Analyst

Udacity - 2020

Education

Accreditation in CS (DSA)

UC Berkeley

2025 - 2025

Bsc. Mechanical Engineering

University of Waterloo

2015 - 2020

Technical Skills

Core Competencies: etl/elt, real-time analytics, data lakehouse, data modeling, apache airflow, kafka, flink, aws s3, glue, redshift

Programming Languages: python, golang, sql, bash, nix

Data: postgresql, mariadb, sqlite, redshift, influxdb, cassandra, mongodb, s3, flink, lambda, dbt, airflow, kafka, spark, elasticsearch, etl/elt

Visualization: grafana, power bi, looker studio, plotly

Data Libraries: pandas, scipy, numpy, tensorflow, pyspark

Infrastructure: linux, docker, kubernetes, aws, proxmox, ansible, terraform, opentofu, dbt

GitOps: git, github actions, ci/cd