

# REZA RAJAN

## Software Engineer - Data Systems

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## Experience

### Mochi - Co-Founder / Platform Engineer

Dec 2022 - Present

- Designed and implemented a Python-based Kubernetes sidecar that enabled replica coordination in a highly available Cardano Node deployment.
- Authored comprehensive system documentation, providing end-to-end operational guidance, and supporting knowledge continuity.
- Migrated infrastructure to Talos Linux, creating a fully declarative provisioning system that supports infrastructure-as-code.
- Built Github Actions CI/CD pipelines for feature repositories, with code validation and testing, reducing rollout times from 3+ hours to <15 minutes.
- Implemented real-time infrastructure monitoring and alerting with Prometheus and Grafana, cutting incident response time by ~60%.

### myKaarma - Data Engineer (Cloud)

Jul 2023 - Jan 2024

- Automated enterprise report generation and delivery with SLA adherence, using AWS Step Functions and Lambda.
- Identified scalability bottlenecks in production data pipelines; presented findings to engineering leadership and initiated efforts to evaluate modernized solutions.
- Delivered a proof-of-concept data processing pipeline on AWS using PySpark and Redshift, reducing data processing time by ~70% compared to the production data warehouse.
- Designed and contributed to a cloud data lakehouse architecture on AWS to scale analytics and reporting.

### myKaarma - Data Engineer (Analytics)

Feb 2022 - Jul 2023

- Interfaced with external stakeholders to capture and translate reporting requirements into technical specifications.
- Developed SQL stored procedures for the MariaDB 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 for internal teams and reducing manual reporting workload for the analytics team.
- Collaborated with software engineers to improve data quality checks and streamline ETL processes feeding the reporting warehouse.

### Urban Shelter Technologies - Software Engineer

Jun 2018 - Jul 2019

- Developed the front-end web interface in React for the company's house listing platform; implemented user authentication and SSO using Firebase.
- Optimized event data model in the Firebase document store backend to reduce redundancy and improve query latency.

## 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