

REZA RAJAN

Data Engineer

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SUMMARY

Software engineer specializing in data systems, having started in full-stack development and progressed into building end-to-end data platforms, from lakehouse architectures to their infrastructure-as-code foundations.

CORE COMPETENCIES

Data Engineering: ETL/ELT, CDC (CDF, Debezium, Airbyte), Data Lakehouse & Modeling, Databricks, Lakebase, Trino, Apache Airflow, dbt, Spark, PostgreSQL, AWS (Glue, Redshift, Step Functions, Lambda)

Software Engineering: Python, Golang, SQL, Bash, Git, CI/CD (GitHub Actions)

Infrastructure as Code: Kubernetes, Docker, Terraform/OpenTofu, Ansible, Nix, AWS, Azure

Analytics & Visualization: Power BI, Grafana, Looker Studio

EXPERIENCE

Ministry of Education Trinidad and Tobago

2026 - Present

Data Specialist

Founding the Ministry's first data capability, building its data platform from the ground up.

- Founded the Ministry's first data capability, winning executive approval to automate reporting across all 31 ministry services by delivering a serverless Azure Databricks lakehouse proof of concept.
- Architected a serverless Azure lakehouse with Databricks, Lakebase Postgres, Trino, and dbt as the foundation for automating previously manual ministry reporting.
- Established data governance with full lineage and provenance coverage of ingested sources via Unity Catalog.

Mochi

Dec 2022 - Present

Co-Founder / Infrastructure Engineer

Self-hosted, independent infrastructure service provider for the Cardano blockchain network and associated ecosystem projects.

- Sustained 98% Cardano block-production uptime with a Python Kubernetes sidecar for replica failover.
- Cut infrastructure costs ~70% vs. cloud by deploying on-prem after a cost/reliability trade-off analysis.
- Cut rollouts from 3+ hours to <15 minutes with declarative Talos Linux IaC and GitHub Actions CI/CD.
- Reduced incident response time by ~60% with Prometheus and Grafana monitoring and alerting.
- Authored end-to-end system documentation and operational runbooks, ensuring knowledge continuity across the project.

myKaarma

Feb 2022 - Jan 2024

Data Engineer

Automotive PaaS company; owned enterprise client reporting and drove the transition of the reporting warehouse to a modern lakehouse.

- Delivered automated reporting to 5,000+ dealerships for 3 enterprise clients through AWS Step Functions orchestration.
- Cut daily report generation query times by up to 50% through MariaDB stored procedure indexing.
- Initiated the lakehouse modernization after hitting MariaDB scalability limits, winning buildout approval with a PySpark/Redshift proof of concept that cut terabyte-scale data processing time by ~70%.
- Stood up the approved buildout with the Principal Engineer, delivering its architecture, roadmap, and first ingestion pipelines.
- Translated external stakeholders' reporting requirements into technical specifications for the analytics team.
- Standardized Power BI dashboards by integrating operational and external data sources, reducing manual reporting workload.
- Collaborated with software engineers to improve data quality checks and streamline ETL processes feeding the warehouse.

Urban Shelter Technologies

Jun 2018 - Jul 2019

Software Engineer

Startup building a house listing platform.

- Delivered the React front-end for the company's house listing platform, implementing user authentication and SSO with Firebase.
- Improved query latency by optimizing the Firebase event data model to reduce redundancy.

BlueFire Technologies Inc.

Sep 2016 - Aug 2017

Software Engineer

Canadian food-delivery platform startup.

- Launched the platform front-end on both web and Android by developing and deploying its React infrastructure.
- Reduced data redundancy and improved query latency by optimizing the Firebase document store data model.

EDUCATION

UC Berkeley

2025

Accreditation in CS (DSA)

University of Waterloo

2015 - 2020

Bsc. Mechanical Engineering

Naparima College

2008 - 2015

Secondary Education

Additional Scholarship (National) · Mathematics Award

CERTIFICATIONS

AWS Certified Data Engineer, Amazon

In-Progress

Project Initiation, Google

2026

Foundations of Project Management, Google

2026

Data Engineering with AWS, Udacity

2024

Self-Driving Car Engineer, Udacity

2021

Data Analyst, Udacity

2020

COURSES

Data Engineering Nanodegree, Udacity

2024

Projects: Data Modelling with Apache Cassandra, Data Warehouse, Data Lakehouse, Data Pipelines

SQL, NoSQL, Python, AWS Redshift, AWS Glue, PySpark, Data Lakehouse, Apache Airflow, ETL/ELT

Self-Driving Car Engineer Nanodegree, Udacity

2021

Projects: Simulation of an Autonomous Vehicle, Traffic Sign Classifier, Extended Kalman Filters, Path Planning, Lane Line Detection

Python, C++, TensorFlow, ROS, OpenCV

Data Analyst Nanodegree, Udacity

2020

Projects: Exploratory Data Analysis, A/B Testing

Python, scikit-learn, Pandas, NumPy