

# Reza Rajan

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## EDUCATION

### DATA ENGINEER

UDACITY NANODEGREE  
Grad. 2024 | Courseware

### CLOUD DEVOPS ENGINEER

UDACITY NANODEGREE  
Grad. 2022 | Courseware

### SELF-DRIVING CAR ENGINEER

UDACITY NANODEGREE  
Grad. 2021 | Courseware

### DATA ANALYST

UDACITY NANODEGREE  
Grad. 2020 | Courseware

### UNIVERSITY OF WATERLOO

BASC MECHANICAL ENGINEERING  
Grad. 2020 | Waterloo, ON

## SKILLS

### PROGRAMMING

#### LANGUAGES

Python • Go • SQL • C++ • Rust

#### DATA FRAMEWORKS, LIBS & UTILS

Airflow • Kafka • PySpark • Pandas • SciPy • Numpy

#### TOOLING

Ansible • Terraform • Docker • Kubernetes • Nix • Traefik • Git

#### DEVOPS METHODOLOGIES

CI/CD • Container Orchestration • Infrastructure as Code

#### AWS

AWS Cloudformation • AWS Iceberg • AWS Athena • AWS Redshift • AWS Step Functions

### COMMUNICATION & LEADERSHIP

Cross-Team Communication • Remote/Asynchronous Development • Project Management (JIRA/SmartSheet)

## EXPERIENCE

### MOCHI - DeFi/Web3 | Stake Pool Operator

Dec 2022 - Present | Remote

- Provisioned highly available infrastructure to run Cardano nodes, using Proxmox, Terraform, Ansible, and K3s, *reducing infrastructure provisioning efforts from hours to seconds*
- Partnered with Cardano ecosystem projects to deliver blockchain introspection and transaction submission services
- Deployed monitoring and alerting solutions with Grafana and Prometheus for production environments, *reducing incident response times from hours to minutes*
- Built ARMv8-A application binaries for deployment on a K3s cluster

### MYKAARMA - AUTOMOTIVE | DATA ENGINEER

Jul 2023 - Jan 2024 | Remote, Florida, USA

- Developed big data processing tooling in Python and Java to generate tailored customer reports, at daily, weekly and monthly scales; *improved report generation speeds by up to 70%*
- Automated customer report generation and delivery using AWS State Machines and Lambda functions, ensuring SLA guarantees and reducing weekly missed report incidents by 99%.
- Collaborated with cross-functional teams to design and deploy a data lakehouse architecture on AWS, aimed at replacing the legacy production data warehouse and *reducing query times on large datasets by at least 50%*
- Collaborated on a proof-of-concept for the data lakehouse architecture with the reporting team, successfully replicating key production data pipeline functions and *achieving 80% operational cost savings* through parallelized report generation

### MYKAARMA - AUTOMOTIVE | PRODUCT DATA ANALYST

Feb 2022 - Jul 2023 | Remote, Canada

- Developed data products for customers which were utilized to inform logistical and operational decisions on a daily basis; *created new revenue streams from hundreds of business clients*
- Introduced Power BI to Product Managers, enabling self-serve analytics across teams; *increased data transparency within the organization*
- Conducted a proof-of-concept with the reporting team, for a real-time data pipeline using Airflow, AWS S3, and AWS Redshift
- Performed product utilization analysis to highlight product KPI metrics, and identify key areas for service improvement; *used by product leads in quarterly stakeholder meetings*

### THE GROWING COMPANY - AGRICULTURE STARTUP | CO-FOUNDER

Mar 2019 - 2020 | Waterloo, ON

- Co-founded a startup focused on bringing reliable, scalable and efficient agriculture to small island countries
- Conducted hands-on research at 5 small-scale farms in the Caribbean, engaging with Ministry officials to inform solutions for regional agricultural challenges
- Collaborated with a mechanical engineer to design a containerized farm, enabling rapid development of environment control software and sensor/actuator hardware, *resulting in a significant reduction in product iteration cycles from weeks to days*