

# 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

## COURSEWORK

### ONLINE

CI/CD Pipelines, Container  
Orchestration, Infrastructure as Code,  
Deep Learning, System Integration, A/B  
Testing

### UNDERGRADUATE

Autonomous Mobile Robotics  
Digital Logic & Control Theory  
Kinematics & Dynamics

## SKILLS

### PROGRAMMING

#### LANGUAGES

Python • Go • SQL • C++ • Rust

#### DATA FRAMEWORKS, LIBS & UTILS

Airflow • Kafka • PySpark • Pan-  
das • SciPy • Numpy

### TOOLING

#### DEPLOYMENT TOOLS

Ansible • Terraform • Docker • Ku-  
bernetes • Nix • Traefik

### AWS

AWS Cloudformation • AWS Ice-  
berg • AWS Athena • AWS Red-  
shift • AWS Step Functions

## EXPERIENCE

### MYKAARMA | DATA ENGINEER

Jul 2023 – Jan 2024 | Remote, Florida, USA

- Developed data processing tooling in Python and Java, for the generation big-data, tailored customer reports at a daily, weekly and monthly scale
- Automated report generation and delivery tasks for customers, using AWS State Machines and Lambda functions, with SLA guarantees
- Architected a data lakehouse on AWS based on the Medallion architecture, as a replacement for the legacy self-managed data infrastructure within the organization
- Worked with infrastructure and reporting teams to create a multi-phase project plan for the development and deployment of the proposed data lakehouse architecture
- Successfully coordinated a small-scale proof-of-concept of the data lakehouse architecture with the reporting team, which replicated a limited subset of functions of the production data pipeline

### MYKAARMA | PRODUCT DATA ANALYST

Feb 2022 – Jul 2023 | Remote, Canada

- Worked with reporting and infrastructure teams to develop a proof-of-concept for a real-time data pipeline using Airflow, AWS S3 and AWS Redshift
- Performed product utilization research to identify key areas in which the organization may improve service to customers
- Developed data products for customers, which were utilized to inform logistic decisions
- Introduced Power BI to Product Managers, enabling self-serve analytics across teams

### MOCHI | STAKE POOL OPERATOR

Dec 2022 - Present | Remote

- Provisioned highly available infrastructure to run Cardano nodes, using Proxmox, Terraform, Ansible and K3s
- Partnered with Cardano ecosystem projects to deliver blockchain introspection and transaction submission services
- Integrated logging and alerts for production node and submit services via Grafana and Prometheus
- Built ARMv8-A for deployment on a Turing RK1 cluster

### THE GROWING COMPANY | CO-FOUNDER & EMBEDDED ENGINEER

Mar 2019 – 2020 | Waterloo, ON

- Co-founded an agriculture startup focused on reliability and scalability through automation
- Designed circuits and drivers which allow connectivity to environment sensors and actuators over I2C to a Raspberry Pi
- Designed the software architecture based on composability, to allow rapid testing of different sensor/actuator configurations
- Developed an environment control system in Python, which uses sensor data and actuators to maintain consistent agricultural environments
- Displayed proof-of-concept by successfully growing a plant without human supervision