Reza Rajan

✉ rezarajan@gmail.com | ☎ 1.407.649.0447 | ○ rezarajan | in rezarajan

EDUCATION

DATA ENGINEER
Udacity Nanodegree
Jan 2024 - Apr 2024

SELF-DRIVING CAR ENGINEER
Udacity Nanodegree
Dec 2020 - Jul 2021

DATA ANALYST
Udacity Nanodegree
Jun 2020 - Aug 2020

UNIVERSITY OF WATERLOO
BASc Mechanical Engineering
Sep 2015 - Apr 2020

SKILLS

PROGRAMMING

Languages
Python • Go • SQL • C++ • Rust

Data Frameworks, Libs & Utils
Airflow • Kafka • PySpark • Pandas • SciPy • Numpy

Tooling
Git • Nix • Docker • K3S • Ansible • Terraform

DevOps Methodologies
Container Orchestration • Infrastructure as Code • CI/CD

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

TEAMWORK
• Cross-Team Communication
• Remote Development
• Project Management
• JIRA/SmartSheet

EXPERIENCE

CO-FOUNDER - Mochi - DeFi/Web3
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

DATA ENGINEER - myKaarma - Automotive PaaS
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, with SLA guarantees; *reduced late report delivery 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 up to 80% operational cost savings* through parallelized report generation

PRODUCT DATA ANALYST - myKaarma - Automotive PaaS
Feb 2022 – Jul 2023 | Remote, Canada

- Developed data products for customers, providing critical insights to inform daily logistical and operational decisions; *used by over 500 business clients*
- Integrated Power BI with existing data sources, and introduced it to Product Managers for self-serve analytics; *reduced data team requests by 10%*
- 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 at quarterly stakeholder meetings and at two NADA expos*

CO-FOUNDER - The Growing Company - Agriculture Startup
Mar 2019 – Jul 2021 | 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 modular, containerized farm, reducing prototyping and testing time of environment control software and sensor/actuator hardware *from 2 weeks to 3 days*