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 • Pandas • SciPy • Numpy

TOOLING
Deployment Tools
Ansible• Terraform • Docker • Kubernetes • Nix • Traefik

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

PROJECTS

HOMELAB | Personal
Two homelab environments are created by:
- Installing Proxmox on a desktop PC, and Intel NUC
- Using Ansible to configure VMs, and Portainer as a container management system

CARDANO STAKE POOL | Personal
A stake pool is created on the Cardano mainnet network by:
- Containerizing program binaries
- Provisioning infrastructure on DigitalOcean and Proxmox
- Automating deployments using Docker Compose and Kubernetes
- Bootstrapping funding using DeFi products such as Liquidity Bonds

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 – Present | 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 logisitic decisions
- Introduced Power BI to Product Managers, enabling self-serve analytics across teams