

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

DEVOPS METHODOLOGIES

CI/CD • Container Orchestration • Infrastructure as Code

TOOLING

DEPLOYMENT TOOLS

Ansible • Terraform • Docker • Kubernetes • Nix • Traefik

AWS

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

COMMUNICATION & LEADERSHIP

Cross-Team Communication • Asynchronous Development (Remote Teamwork) • 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
- 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 application binaries for deployment on a Turing RK1 cluster

MYKAARMA - AUTOMOTIVE | DATA ENGINEER

Jul 2023 – Jan 2024 | Remote, Florida, USA

- Developed data processing tooling in Python and Java to generate tailored customer reports on big-data, at daily, weekly and monthly scales; *improved report generation speeds by up to 70%*
- 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; *parallelized report generation processes and reduced operational costs by up to 80%*

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; *introduced 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*
- 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 analysis to highlight product KPI metrics, and identify key areas in which the organization may improve service to customers; *used by product leads in stakeholder meetings*

THE GROWING COMPANY - AGRICULTURE STARTUP | Co-FOUNDER & EMBEDDED ENGINEER

Mar 2019 – 2020 | Waterloo, ON

- Co-founded a startup focused on bringing reliable, scalable and efficient agriculture to small island countries
- Communicated with small farmers in the Caribbean, and the Ministry of Agriculture in Trinidad as part of a research effort to understand agricultural painpoints
- Worked alongside a mechanical engineer to design a containerized test environment, for use in developing and prototyping cost-effective sensor/actuators for use in farms
- Developed an environment control system in Python, which used sensor data and actuators to maintain set agricultural environments