Chase Robertson

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EXPERIENCE

Data Engineering Intern
Gametime

Remote
06/2024 - Present

- Migrated legacy Fivetran connector to Confluent Kafka pipeline for MongoDB to Snowflake ETL, implementing incremental dbt SQL models with clustering keys, saving $40,000 annually.
- Optimized 60+ production Airflow DAGs to follow best practices, solving resource utilization inefficiencies and reducing parse time by 50%.
- Refactored Go-based ETL process, reducing dbt SQL model runtime and compute cost by 80%, resulting in $14,000 annual savings.
- Designed and implemented data pipelines using Confluent Kafka, Terraform, and dbt SQL, enabling real-time data flow from pricing services to Snowflake for ML model ingestion.
- Automated container deployment workflow with GitHub Actions CI/CD, AWS ECR, and Terraform, streamlining developer experience and enabling cross-team contributions.
- Implemented Datadog monitoring system with Slack integrations for Confluent Kafka resources, fostering proactive performance optimization and rapid incident response.
- Developed Snowflake external table monitoring system with automated alerts, ensuring data quality and reliability.

Research Assistant
The University of Auckland

Auckland, New Zealand
02/2022 - 03/2024

- Proofread and corrected 30 academic articles which outlined new or updated packages, for The R Journal.
- Conducted tutorial sessions, assisted students with lab work, and collaborated to create course and exam materials.
- Go-to assistant for the Advanced Data Science Practice course as well as 3 introductory CS courses.

Machine Learning Ops Intern
Cognizant

Auckland, New Zealand
11/2022 - 02/2023

- Architected and implemented a complete data science ecosystem via Terraform, GitLab CI/CD, and AWS.
- Led cross-functional team of 5 interns, consistently exceeding expectations and deploying new features ahead of schedule.

Systems Administrator
Lucid Software

South Jordan, Utah
09/2018 - 07/2021

- Drove a successful custom migration from Jira/Confluence Server to Atlassian Cloud, at twice the expected rate.
- Analyzed disparate data sources to audit workstation inventory, identifying dozens of at-risk devices.
- Traveled to Melbourne AU to source and configure new hardware in support of the company's first APAC office launch.
- Managed SSO integrations, fleet configuration/reporting, and served as team mentor to 3 entry-level hires.
- Administered office network and device fleet of 500 macOS, 120 Windows, and 200 Ubuntu devices.
- Created custom scripts to manage 70 legacy VoIP devices, saving thousands in software licensing costs.

SKILLS

Apache Airflow, Apache Kafka, API's, Atlassian, AWS, CI/CD, Confluent, dbt, Data Modeling, Docker, Exploratory Data Analysis, ggplot, git, HTML, Jamf, Javascript, keras, Machine Learning, MacOS, pandas, Powershell, Python, scikit-learn, Snowflake, SOPS, SSO, SQL, Terraform, Terragrunt, Time Series Forecasting, Ubuntu, UNIX Shell, Windows, Zendesk

EDUCATION

Master of Data Science
The University of Auckland, GPA 3.8/4.0

Auckland, New Zealand
02/2022 - 11/2023

- Graduated with First-Class Honours
- Thesis research: time-series forecasting of net electricity demand, confounded by behind-the-meter solar photovoltaic generation
- Statistical methods, including hypothesis testing, Bayesian inference, and regression
- Data processing, analysis, visualization, and modeling with R, tidyverse, ggplot
- Machine learning theory and practice; model evaluation and validation using Python, scikit-learn, keras, etc

Bachelor of Science, Computer Science
Brigham Young University

Provo, Utah
01/2014 - 05/2018