

TRISTAN MCKINNON

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EXPERIENCE

Senior Data Engineer, CIMSense, Hybrid – St. Helens, OR

October 2023 – Present

- Actively worked with VC and division stakeholders to gather business needs and develop pipelines and ETL solutions utilizing SQL, Databricks, Data Factory, etc in the Azure environment.
- Designed, built, and optimized architecture of data lake, integrating numerous data sources.
- Wrote and maintained documentation for architecture, processes, testing, and applications.
- Established connectors between numerous ERPs and Azure, troubleshooting network issues.
- Built mechanisms to ensure ongoing data governance and management, standardizing existing data across all divisions and guaranteed that newly created data complies.
- Transitioned existing reports to PowerBI, built atop Azure, improving functionality and reliability.

Azure Data Engineer, Ahold Delhaize, Remote – Portland, OR

July 2023 – Present

- Developed pipelines and ETL solutions for business needs utilizing the Azure environment (Data Factory, Databricks, Logic App, Functions, Python, SQL, Scala, etc).
- Restructured existing pipelines to new automation scheduler, optimizing efficiency of operations, minimizing hops, and improving logic of workflow.
- Provisioned resources, configured load balancers, and managed CI/CD pipelines in PowerShell.
- Drafted TDD, documenting business requirements, pipeline functions, and testing procedures.

Senior Data Science Teacher, SPICED Academy, Remote – Germany

August 2022 – December 2023

- Drafted and delivered curriculum on Git, Bash, Python, Data Engineering, SQL, NLP, Docker, AWS, various Machine Learning Models, Recommender Systems, Neural Networks.
- Managed students using a Scrum-like structure, including code reviews and CI/CD workflows.
- Developed and maintained a robust Google Cloud Platform (GCP) pipeline, streamlining data harmonization, structuring data marts, and building reports for various stakeholders.
- Maintained and enriched automated workflows for scheduling, enrollment processes, etc.

Data Engineer, Freelance, Remote – US and Germany

March 2018 – August 2022

- Developed and documented ETL solutions based on business requirements.
- Built pipelines and dashboards in AWS, Azure, GCP environments, using SQL (PostgreSQL, U-SQL, T-SQL, and MySQL) as well as Python, Spark, Scala, R, Bash, and PowerShell.
- Collaborated heavily with on-site teams to maintain conventions and ensure interoperability of codebases. Ensured complete handover of project control and documentation.

Major Projects

Client: DaaS, rapid growth outpaced scaled infrastructural development. 2022 (5 months)

- Transitioned existing databases to a 3NF dimensional model in the AWS environment.
- Reworked internal application's CRUD tools, improving the SQL search logic, leveraging indexes, and integrating ElasticSearch. Mix of SQL and NoSQL using Cassandra.
- Automated workflow and established CI/CD pipeline using Camunda and Jenkins.

Client: Specialized insurance brokerage, first time digitalization. 2021-2022 (7 months)

- Created secure database with TDE and SSL, and role-based access control.

- Established ETL pipelines to securely handle website submissions, data from platforms (i.e. – Salesforce), and newly scanned documents using Talend and PowerShell.
- Leveraged GCP to store data, build dashboards, and create triggered events.

Client: E-Commerce retailer, merged four different companies in 2 years. 2020 (5 months)

- Mapped multiple transitional tables to align central SQL database from disparate sources. Created a single source of truth, supporting various departmental data marts.
- Most legacy sources remained active; complex pipeline to align future data.
- Wrote an internal querying tool for non-technical stakeholders with role-based access.
- Built specialized data marts to support machine learning and recommender models.

Client: Carpet importer, scaling business to multi-national, multi-platform. 2021 (8 months)

- Developed a pipeline reading CSVs and handwritten notes into GCP using PowerShell scripts, SQL databases, and CV models, aligning data with vendor APIs.
- Modeled and built available data sources into a data warehouse to support operations.
- Created recommender systems to support engagement campaigns for products, website sessions, and customer loyalty program profiles.

Executive Assistant to the CEO (prev. Interim Head of Billing), Monarch Medical, Eugene, OR
March 2017 – April 2019

- Time series analysis to optimize staffing and supply ordering, improving profitability by 15%.
- Used PostgreSQL and Python to analyze billing and payment patterns and scripted automated processes to correct billing errors and respond to insurance denials.
- Built Tableau dashboards with granular daily insights for stakeholders and business partners.

Customer Success Manager/Billing Supervisor, MediLynx Cardiac Monitoring, Plano, TX
Feb 2015 – Mar 2017

- Designed and maintained MySQL database integrating CRM and billing data, with triggers and stored procedures to ensure data integrity and alert users of flagged situations.
- Built frontend capture-planning evaluator with Python to help sales teams identify higher-yield opportunities using database, scraped data, and ML modeling.

Agency Development Manager (prev. Senior Account Manager), Allstate, Irving, TX
Aug 2013 – Jan 2015

- Maintained and queried PostgreSQL database for prospecting and growth-planning.
- Developed a JavaScript-based applet for users to query the database via a JDBC connection.
- Cross-department side projects using predictive models for client identification, including Logistic Regression, Random Forest, Clustering, Apriori, Eclat, NMF, and Cosine Similarity.

EDUCATION AND CERTIFICATES

Bachelor of Science in Computer Science
June 2024, Western Governors University

Certified Data Scientist – June 2022, SPICED Academy, Berlin, Germany

Professional Certificate in Data Engineering – February 2022, IBM (EdX)

Professional Certificate in Data Science – October 2020, Harvard University (EdX)

SKILLS

Data Science • Data Engineering • Python • R • JavaScript • PostgreSQL • MongoDB • Bash • Git • ETL • Machine Learning • Recommender Systems • Reinforcement Learning • Neural Networks • NLP • AWS • GCP • CI/CD • Docker • Kubernetes • Azure • Hadoop • Spark • Kafka • BigQuery • Jenkins • Talend • Tableau • PowerBI • Databricks • PowerShell • SSIS • SAP • Scrum • Business Intelligence • Communication • Problem-solving • Adaptable • Creative • Collaboration • Teamwork • Leadership • Time Management • Work Ethic • Flexibility