

Kawalpreet Deol

Data Engineer

github.com/KawalpreetDeol

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Experience

Data Engineer @ Tealbook

Sept. 2022—Dec. 2022 // Toronto, ON

- Led a front-end solution enabling the upload of large data files to Cloud Storage and monitoring its data quality validation with real-time status updates from Datastore using React.js and Python
- Debugged microservice bugs by logging data objects on Cloud Logging
- Streamlined Google Sheet reviews by developing a microservice to cleanse sheet data and append results to an aggregated sheet using Python and Flask
- Automated manual sheet aggregation by creating a Google Drive Trigger with an Apps Script to run the data cleaning microservice upon new sheet uploads

Data Engineer @ Tealbook

Jan. 2022—Apr. 2022 // Toronto, ON

- Enhanced and executed web crawlers on a Compute Engine virtual machine
- Developed a script to extract JSON files from Cloud Storage, validating each file and logging the results using Python
- Crafted a Python script using Pandas to cleanse JSON data, align it with a specific schema, store the resulting data frame in a spreadsheet, and send the sheet to an ML API via a JWT authenticated request
- Employed Python to build a BERT model with data from BigQuery, predicting Small Business certification eligibility for companies with 82 % accuracy

Full Stack Developer @ PartnerStack

May. 2021—Aug. 2021 // Toronto, ON

- Utilized Test Driven Development (TDD) principles to reduce errors by building test cases that provided over 80% code coverage

Web Developer @ Horizn Studios

Sept. 2020—Dec. 2020 // Toronto, ON

- Created site routes, relational models, migrations, seeders, and controllers to build a front-end to show user topics using React.js, Laravel, MySQL, and S3

PHP Developer @ Venngo Inc

Jan. 2020—Apr. 2020 // Toronto, ON

- Developed a module enabling merchants to visualize product data statistics, access account details, and submit forms using Vue.js, Laravel, MySQL and S3

IT Technical Developer @ City of Toronto

May. 2019—Aug. 2019 // Toronto, ON

- Engineered a SQL backend using relational modelling to manage engineering design document status and versioning

Skills

General

Python, SQL, JavaScript, PySpark, SparkSQL, Snowflake, Tableau

Azure Platform

SQL DB, Data Factory, Data Lake, Synapse, Databricks, HDInsight

Google Cloud Platform

Cloud Storage, Datastore, Cloud Functions, BigQuery, Firebase

Certifications

Microsoft Azure Data Engineer

EXP: Aug. 14, 2024

Education

University of Waterloo

Sept. 2017—June 2023

BASc Computer Engineering, Honours, Co-op

Projects

Telemetry Processing

Processed vehicle telemetry data from a S3 bucket and stored the results in Azure SQL Database using Data Lake Gen2, Data Factory, and Functions App

Product Data Validation

Validated product data using Databricks, Data Lake Gen2, Data Factory and Azure SQL Database

Website Automation

Built an environment to automate the deployment and testing of a website using Docker, Terraform, Jenkins and Selenium