

Kawalpreet (Kawal) Deol

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Summary

A University of Waterloo Computer Engineering graduate, bringing a rich background with two years of work experience. Certified as an Azure Data Engineer Associate. Completed multiple projects, showcasing a diverse knowledge base. Renowned for my rapid learning abilities, I adeptly navigate complex technical landscapes, demonstrating a keen aptitude for both data and software engineering.

Skills

• Python | C++ | JavaScript | React | SQL | NoSQL | MySQL | SQL Server | Azure | GCP | S3 | Git | Distributed Systems | OOP | REST API

Work History

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|---|-------------------------------|-------------------------|--------------------------|
| Data Engineer | <u>Tealbook</u> | Toronto, ON, CAN | 09/2022 – 12/2022 |
| <ul style="list-style-type: none">Led a project enabling the upload of large spend files to Google Cloud Storage and monitoring its data quality validation progress with real-time status updates stored on Google Datastore using React.js, Express.js and Python providing clients with 2x the insights.Planned and conducted tutorial sessions, providing insights into the data quality project and the codebase for the Tealbook web app.Debugged 100% of the microservice bugs by logging data objects on Google 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 making the review time 120x faster with zero probability of human error.Triggered the Flask microservice upon new file uploads with a Drive Trigger using Google Apps Scripts to automate 100% of the process. | | | |
| Data Engineer | <u>Tealbook</u> | Toronto, ON, CAN | 01/2022 – 04/2022 |
| <ul style="list-style-type: none">Enhanced web crawlers to scrape online certification databases using Python, leveraging Scrapy and BeautifulSoup.Automated 80% of a quality control process for scraped certification data provided from an external vendor by developing a script to extract JSON files from Google 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, and send the data as a spreadsheet to an ML API via a JWT authenticated request.Build a BERT model with data extracted from Google BigQuery, predicting Small Business certification eligibility for companies with 82% accuracy using Python in a Jupyter Notebook. | | | |
| Full-Stack Developer | <u>PartnerStack</u> | Toronto, ON, CAN | 05/2021 – 08/2021 |
| <ul style="list-style-type: none">Participated in a team-driven Design Sprint for the Partner Summary Page, involving goal definition, audience analysis, brainstorming, product prototyping, vendor validation, and design finalization for the first iteration.Utilized Test Driven Development (TDD) principles to reduce errors by building test cases in Jest that provided over 80% code coverage. | | | |
| Web Developer | <u>Horizn</u> | Toronto, ON, CAN | 09/2020 – 12/2020 |
| <ul style="list-style-type: none">Built a web app to show user topics using React, Laravel, SQL, MySQL, and S3. | | | |
| PHP Developer | <u>Venngo Inc</u> | Toronto, ON, CAN | 01/2020 – 04/2020 |
| <ul style="list-style-type: none">Developed a module to visualize product data statistics, access account details, and submit forms with Vue, Laravel, SQL, MySQL and S3. | | | |
| IT Technical Developer | <u>City of Toronto</u> | Toronto, ON, CAN | 05/2019 – 08/2019 |
| <ul style="list-style-type: none">Engineered a MySQL backend using relational modelling to manage the statuses and versioning of engineering design documents.Enhanced an existing data packet information management website using HTML, CSS, JavaScript, PHP, PowerShell, SQL, and MySQL. | | | |

Education

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| Bachelor of Applied Science | <u>University of Waterloo</u> | Waterloo, ON, CAN | 09/2017 – 06/2023 |
| <ul style="list-style-type: none">Major in Computer Engineering, Honours | | | |

Projects

- Personal Website:** Crafting a personalized portfolio website to showcase areas of interest, projects and an experience timeline utilizing React.js, Node.js, Material UI, Firebase (Hosting, Functions, Firestore), Docker, Jenkins, Jest, and React Testing Library **(11/2023 – Present)**
- Stats Utils:** Developed and published a Python package on PyPi for calculating Binomial and Gaussian distributions **(01/2024)**
- Vehicle Telemetry Processing:** Created an ETL pipeline to process vehicle telemetry data retrieved from S3 and store the results in an Azure SQL Database using Azure Data Lake Gen2, Azure Data Factory, and Azure Functions App **(10/2023)**

Certifications

- Microsoft Azure Data Engineer Associate:** Evaluates expertise in data pipelining, querying, storage, and streaming **(EXP: 08/2024)**