Sumiksh Trehan

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PROFESSIONAL SUMMARY

Recent graduate and motivated Software Developer & Data Engineer with experience in Python, SQL, JavaScript, Node.js, Next.js, and cloud platforms (AWS, Azure, GCP). Skilled in building ETL pipelines, BI dashboards, and scalable web applications, with hands-on experience in Power BI, Tableau, and SQL-based data processing. Proven ability to collaborate with cross-functional teams, troubleshoot complex issues, and deliver solutions aligned with business requirements.

TECHNICAL SKILLS

- **Programming & Scripting:** Python (Pandas, NumPy), SQL, JavaScript, Node.js, HTML/CSS, Next.js
- **Data Engineering & BI:** Snowpipe in Snowflake, ETL pipelines, Databricks, Power BI, Tableau, Data Modeling, SQL Server, PostgreSQL, MongoDB
- **Cloud Platforms:** AWS (EC2, Cognito), Azure, GCP, Firebase
- **Dev Tools & Collaboration:** Jira, Confluence, Git, Agile/Waterfall
- **Testing & Quality:** Unit testing, UAT, issue tracking, troubleshooting, documentation

EDUCATION

Honours Bachelor of Technology Software Development	Aug 2025
Seneca Polytechnic – Toronto, ON	
Diploma Computer Programming	Jan 2023
Seneca Polytechnic – Toronto, ON	
Diploma Electrical Engineering	Jan 2017
Georgian College – Barrie, ON	

WORK HISTORY

Ontario Public Services (TBS Branch), Junior Programmer Co-op   Jan 2025-May 2025
Oshawa, Ontario

- Developed Python-based ETL scripts to profile and transform MS SQL Server data, generating analytic data sets for Power BI dashboards used by AVPs and VPs.
- Conducted User Acceptance Testing (UAT) for multiple government programs, tracked defects, and coordinated resolutions with internal teams and vendors.
- Automated data ingestion into Azure SQL Database via ADF pipelines, enabling biweekly MVP deliveries and reducing manual data prep time by 70%.
- Designed data models and wrote Spark SQL in Azure Databricks to aggregate project metrics, improving performance of executive reports.

CIBC, Android Developer Co-op   May 2024-Aug 2024
Toronto, Ontario

- Implemented MVVM architecture for scalable and maintainable CIBC pilot gamification feature.
- Integrated Adobe Analytics to track user engagement and optimize feature performance.
- Documented workflows and requirements in Confluence.
- Tracked UAT issues, bugs, and enhancements in Jira.

Claret Asset Management, IT Specialist   Jun 2022-Jan 2023
Montreal, Quebec

- Replaced legacy SSIS data pipelines with python-based ETL processes for maintainability and performance.

- Worked with PostgreSQL and MongoDB for data extraction and transformation.
- Experienced in creating Snowpipes in Snowflake to continuously ingest data from cloud storage using Snowflake's external stages and ingestion queues.
- Partnered with cross-functional teams to deliver Power BI dashboards and supported change management during rollout to internal users.
- Developed Python scripts to automate the weekly download of hundreds of documents, eliminating 100 hours of manual work each month.

PROJECTS

Seattle Airbnb Recommendation   April 2024
Tableau: seattleairbnbrecommendation-Dashboard1
- Built interactive Tableau dashboards analyzing Seattle Airbnb data, including pricing trends by ZIP code, bedroom count, and historical listings.
- Delivered geospatial and time-series insights to support business decisions on pricing, inventory distribution, and seasonal demand.

Web Portfolio   May 2024
Vercel: https://portfolio-five-gamma-25.vercel.app | GitHub: https://github.com/Sumiksh/portfolio
- Developed a responsive personal portfolio website using React, showcasing experience, education, projects, and skills with clean navigation.
- Implemented interactive components (cards, buttons, tables, and Bootstrap layout) for structured display of professional and academic information.

Sports Motion Detection and Tracking   June 2025
Github: https://github.com/Sumiksh/dps920finalproject.git
- Built a video processing pipeline using classical computer vision techniques to detect and track motion across sports footage.
- Implemented frame differencing and viewport tracking to highlight moving objects and generate annotated output videos.

Machine Learning Projects: Regression and Image Classification (AI/ML Projects)   June 2025
Github: https://github.com/Sumiksh/aimodels
- Predicted house prices using supervised regression models (Linear Regression, SGDRegressor) on structured data and evaluated performance with MAE, RMSE, and MAPE.
- Built image classification pipelines for Cats vs Dogs using Logistic Regression, KNN, and Convolutional Neural Networks in TensorFlow/Keras, demonstrating improved accuracy with deep learning methods.

CERTIFICATIONS

- AWS- Certified Cloud Practitioner (In Progress - learning S3, AWS Lake Formation, Glue, EMR, EC2, AWS Lambda, Athena)
- Linkedin- Introduction to Spark SQL and DataFrames, Azure Spark Databricks Essential Training, Learning Apache Airflow
- DataCamp- Object-Oriented Programming in Python, Introduction to Python