

Shushital Roy

Toronto, ON, Canada | info@shushitalroy.ca | [linkedin.com/in/shushitalroy](https://www.linkedin.com/in/shushitalroy) | shushitalroy.ca

Summary

Analytics-focused software engineer with 6+ years developing business intelligence solutions across healthcare, financial, and enterprise environments. Built automated data models and analytics tools serving 200+ business users, migrated 1+ million records with 98% data integrity, and optimized data pipelines by 40%. Expertise in SQL, Python, ETL frameworks, and cloud platforms (AWS, Azure, Snowflake) with proven ability to translate business problems into strategic technical solutions.

Skills

Languages: Python, SQL, C#, JavaScript, Java

Analytics & Database: ETL, OLAP, Data Warehousing, Data Modeling, Pipelines, Real-time Stream Processing, Data Analysis

Technologies: Snowflake, AWS, Azure, PostgreSQL, MongoDB, .NET, Docker, Git, Apache Kafka, Apache Spark

Experience

Data Engineer, Levio Inc. – Oakville, ON April 2023 – Present

- Translated complex business requirements into advanced analytics solutions by migrating enterprise data from Azure to Snowflake using Medallion Architecture, increasing pipeline efficiency by 40% and enabling strategic data accessibility for cross-functional teams
- Developed decision support systems through comprehensive C# REST API suite connecting 2 internal systems, accelerating financial analysis capabilities for 200+ business users and reducing data retrieval time by 35% since Q4 2024
- Created automated data processing solutions using Python, AWS, and Pandas for healthcare data migration, transmitting 1+ million patient records with 98% data integrity, completing strategic project 2 weeks ahead of 8-week deadline

Software Engineer, Levio Inc. – Oakville, ON May 2021 – April 2023

- Improved productivity through automation by configuring AWS S3 and Azure Blob Storage integration with GitHub and Azure Repos, reducing deployment errors by 15% through automated AWS SageMaker and Azure Functions scripts, eliminating need for manual intervention
- Enhanced business intelligence capabilities by extracting and analyzing 500+ datasets from PostgreSQL and SQL Server databases, improving response time for customer and internal requests by 30% while maintaining 100% data integrity across multiple departmental reports

Web Developer Intern, Real Decoy – Ottawa, ON Jun 2020 – Sep 2020

- Delivered strategic system enhancements through 10+ feature implementations and critical bug fixes for large-scale health database system using PHP and JavaScript, boosting system performance by 20% and improving user experience within 3-month timeline
- Streamlined operational workflows through JIRA optimization, reducing re-opened tickets by 10% and accelerating development cycle efficiency for client feedback management, demonstrating cross-functional collaboration skills

Projects

Scam Call Detection Pipeline January 2026

Technologies: Apache Kafka, Apache Spark, AWS S3, Snowflake, Python, scikit-learn, Streamlit, Docker

- Designed real-time streaming pipeline processing 1,000+ calls/second with 90% scam detection accuracy using Kafka event streaming, Spark Structured Streaming with K-Nearest Neighbors ML inference for fast predictions, and automated ETL workflow (Kafka → Spark → S3 → Snowpipe → Snowflake)
- Deployed end-to-end data pipeline enabling near-real-time fraud analytics on call patterns and trends

Education

University of Ottawa, BS in Computer Engineering	Sept 2016 – May 2021
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Certifications

AWS Certified: Data Engineer - Amazon	Jan 2026
AWS Certified: AI Practitioner - Amazon	Mar 2025
Microsoft Certified: Azure Fundamentals - Microsoft	Apr 2024