Chakshu Madan

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OBJECTIVE

Motivated Data Engineering student actively seeking a 4-month Co-op opportunity starting Summer 2025, with a strong desire to apply my IT skills and contribute effectively to the fintech sector.

SUMMARY OF QUALIFICATION

- Strong knowledge of object-oriented programming languages and data engineering technologies using PySpark, Databricks, and SSIS Packages
- Proficient in SQL, Python, Databricks, MS Power BI and experienced with data extraction, transformation, and loading (ETL)
- Capable of taking directions and executing task independently with precisions
- Experienced in data transformation, engineering, cleaning, and mining, leveraging modern data analytics techniques to extract actionable insights that drive informed decision-making
- Excellent verbal and written communication skills with strong problem-solving and conflict-resolution abilities
- Actively engaged in both in-person and virtual discussions, hackathons, and networking sessions at the Microsoft Toronto Fabric & Power BI User Group, Microsoft Reactor, and the Toronto Data Professionals Community

PROJECT

Stock Market Data Analysis with Market stack API, Toronto, Canada   Jul 2024 – Aug 2024

- Fetched and analyzed stock market data using SQL, Python and PySpark, creating visual insights that enhanced investment decision-making and market trend analysis.
- Extracted data from the API and saved it as a CSV file in the Databricks File System (DBFS), while parsing and transforming the retrieved data into structured formats suitable for analysis
- Prepared visualizations to highlight key market trends and key performance metrics

Weather Data Analysis and Visualization with Databricks, Toronto, Canada   Jun 2024 – Jul 2024

- Developed a Databricks-based solution using PySpark, Python and SQL to fetch, process, and visualize historical weather data for multiple cities, enhancing data-driven decision-making with actionable insights and trend analysis
- Parsed JSON responses and transformed them into structured Pandas Data Frames for analysis
- Conducted data cleaning and transformation using PySpark, Data Profiling feature of data bricks to prepare datasets for visualization
- Developed visualizations to identify trends and key insights using Databricks visualization techniques, resulting in the creation of a comprehensive dashboard within the Databricks environment

Sales Dashboard using Power BI, Toronto, Canada   Jan 2024 – Feb 2024

- The Sales Dashboard offers a comprehensive snapshot of sales performance, products sold, and customer engagement for decision-making by using Microsoft sample data
- Utilized Microsoft sample data to develop the Power BI dashboard, employing Excel features, DAX functions, and measures for enhanced data analysis and visualization

College Admission, Toronto, Canada   Mar 2024 – Apr 2024

- Developed a Python project for the admission department, managing student admissions, calculating GPAs, and assigning schools based on academic performance
- Gathered requirements and conducted meetings with professors using agile methodology, completed documentation, and delivered the final presentation of the utility to faculty and peers at Humber College

RELEVANT WORK EXPERIENCE

Newgen Software Technologies   Dec 2011 – Aug 2015
Senior Programmer   India

- Built **SSIS dataflow mapping** to extract the data from the **Oracle database**, integrate millions of records, and ingest data into an **MS SQL Server** using **PL/SQL preprocessing logic**, resulting in a 40% reduction in data transformation
- Conducted thorough testing of end-to-end **ETL SSIS data mappings**, monitoring preprocessing logic by using **SQL** automated scripts, resulting in a 20% improvement in the **ETL testing process**
- Deployed and debugged SSIS data flow applications at the client's environment in Oman, by **collaborating closely with stakeholders**, resulting in a 50% reduction in report generation
- Provided Oracle **SQL coding training** to 50+ developers and testers by facilitating workshops, code review discussions, and providing personalized coaching, resulting in a 35% faster integration into mainstream roles

Other WORK EXPERIENCE

Save The Water (Part Time – Volunteer)   Sep 2024 – Present
Technology Associate: Web Analytics   Canada

- Conducted data analysis and created detailed performance metrics reports (e.g., number of clicks and impressions) using **Google Looker**, translating complex business needs into actionable insights

- Performed analysis using MS Excel, including VLOOKUP, HLOOKUP, and PivotTables, to organize data and track key performance metrics, providing accurate insights and solutions
- Developed comprehensive reporting systems to track key campaign metrics, facilitating the continuous improvement of Google Ads strategies

Macquarie Global Services   **May 2022 – Nov 2023**
Operational Risk Manager   India
- Built metrics and reports using **Power BI** that translated business needs into actionable insights by migrating data from MS Excel and visualizing key business **Key Performance Indicators (KPIs),** this resulted in a 50% reduction in overdue incidents reported
- Developed Python scripts to automate data collection and analyze data, resulting in a 40% reduction in manual data entry time and supporting strategic growth initiatives by increasing operational efficiency
- Built a Power BI risk governance **dashboard** for the board audit committee, enhancing visibility into regulatory reporting data quality issues and associated IT risks, which led to a 50% reduction in data quality issue
- Ensured consistent identification and documentation of new and existing controls and oversaw the reporting of incidents and issues recorded in IBM Open Pages and Jira portals, resulting in a 30% improvement in incident tracking and control documentation

Moody's Analytics   **Sep 2015 – Apr 2022**
QA Engineer   India
- Automated the **regression testing process** by using **Python-based test cases** to automatically validate data, resulting in reduced manual intervention and a 25% increase in overall efficiency
- Developed technical solutions for distributed data to conduct manual and functional testing by using **Python scripts and SQL queries**, demonstrating the ability to manage complex testing environments and resulting in a 20% increase in QA process efficiency
- Rewrote **SQL queries** to collect and organize data across multiple departments, implementing a centralized data management system that improved data access and reporting efficiency by 35% for Power BI reporting purposes
- Collaborated with cross-functional teams to gather business requirements, prioritize the user stories according to agile methodology, resulting in a 30% improvement in multiple projects' delivery efficiency

WNS Global Services   **Mar 2010 – Jul 2011**
Customer Service Associate   India
- Resolved production support tickets and actively troubleshot technical issues by coordinating with Orange Business Services and applying networking-related knowledge, resulting in a 15% faster issue resolution
- Developed functional and technical documentation for all business change requests using MS Word and Confluence, which facilitated the preparation of 50 business requirements for the troubleshooting team
- Facilitated team building activities and process training for new joiners by providing IT support, ensuring a smooth onboarding experience, and resulting in a 30% increase in new hire productivity

EDUCATION

- **Business Insights and Analytics (Co-op Stream), Post Graduate Certificate**   **Jan 2024 – Aug 2025**
  Humber College Institute of Technology and Advanced Learning, Etobicoke, ON
  - Dean's Honor List in Winter 2024, Summer 2024 (GPA: 3.6/4.0)
  - Academic projects: Data Extraction and Visualization (Databricks, PySpark, SQL, Rest API), College Admission GUI (Python, Tkinter), Netflix Dashboard (Excel, Tableau)
- **Master of Computer Application**   **Aug 2006 – Sep 2009**
  Maharshi Dayanand University, India (GPA: 3.21/4.0)
- **Bachelor of Computer Applications**   **Jul 2003 – Jun 2006**
  Guru Gobind Singh Indraprastha University, (GPA: 3.46/4.0)

ACCOMPLISHMENTS

- Recognized with **Spot Awards at Macquarie Global Services** for outstanding contributions in Q3 2022 and Q2 2023
- Bestowed with several awards from **Moody's Analytics**, including the **Maverick Manager Award** in Q1 2020, the **Create Confidence Award** in Q4 2018, and the **Extra Miler Award** in Q4 2016

SKILLS

Technical Skills: SQL, NoSQL, Python, ETL, Azure Data Factory, MS Power BI, PySpark, Databricks, Tableau, SPSS, GitHub
Soft Skills: Attention to Detail, Written and Verbal Communication, Time Management, Problem-Solving, Adaptability

CERTIFICATION AND TRAINING

- MS Power BI Dashboard in a Day at Humber College (DIAD) Training   Apr 2024
- Google Analytics Certification (Google Ads reports)   Feb 2024
- LinkedIn Learning PostgreSQL, Python Essential Training & SQL: Data Reporting and Analysis   Aug 2021
- Hacker Rank SQL (Basic) & Python (Basic)   Aug 2021
- iNeuron PowerBI   May 2020

References Available Upon Request