OMAR PATEL

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WORK EXPERIENCE

TD Securities   **September 2021 – Present**
Senior Data Engineer

- Pitched, designed, and built autonomous end to end ETL Equity pipelines and ML Models (NLG/RNN) from multiple source systems & data types (RESTAPI, CSV, Databases), transformations and applied methodologies, to self-launched internal web app for dashboarding and data exploration
  - **Machina**
    - **R&D**: Initial stakeholder analysis, Mockups, ETL/Platform wireframes, Architecture, Project website, Kanban, Executive pitch **(Figma, Confluence, JIRA, PowerPoint)**
    - **Backend**: **~1416 hr/year saved**/98% Process Time Reduction/Sanity Checks for autonomy & risk reduction **(Pandas, PySpark, PyTorch, SQL, Airflow, VM, Git)**
    - **Front End**: Platform created for multiple stakeholders; data visualized with deep dive functionality to provide actionable data for 3 individual groups of stakeholders **(Python, HTML, CSS, Django, Databricks (Warehousing/SQL, Tableau, AGGrid)**
- Drove strategy and change outside my team on larger scale with projects including:
  - **TDS Flow** – Pitched and contributed development of internal Stack Overflow colleague platform
  - **TDS Automate** – Founding member of committee dedicated to enhance colleague technical skills and data science familiarity to drive TD Data First strategy and adoption
- Self-taught front end and product management skills to effectively lead and meet the needs of projects with bootstrapped resources and talent

BMO Capital Markets   **April 2018 – January 2021**
Business Analyst

- Conducted end-to-end analysis and execution of critical risk driven reporting, leveraging detailed data-based insights, root cause identification, process mapping, gap analysis, and developing automation solutions
- Worked on initiatives for development of process optimization and cost reduction, leading to a 70% increase in operational efficiency and stakeholder visibility (**Python, SQL, PowerBI, Great Expectations**)
- Conducted A/B tests on automation features, analyzed results, and provided actionable recommendations for optimizing time and data quality while mitigating operational risk
- Acted as a liaison between technical and non-technical teams, bridging communication gaps and ensuring a shared understanding of project objectives and requirements (**JIRA, PowerPoint**)

EDUCATION

Queen's University
BA in Economics

CERTIFICATIONS, SKILLS & INTERESTS

- **Languages:** English, Hindi, Urdu, French
- **Skills:** Technical Product Management, Python, SQL/NoSQL, Tableau**,** Postman, JIRA, Confluence, HTML/CSS, JS, Svelte, ETL/ELT, Airflow, Spark, Data Transformation/Cleansing/Modelling, Agile
- **Interests:** Hiking; alpine climbing; travelling; jiu jitsu; macroeconomics, psychology, politics/geopolitics, ML

Quote of the Day

"Per aspera ad astra." - "Through hardships to the stars"