

# Aaryen DSouza

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## TECHNICAL SKILLS

**Languages:** Python, Java, JavaScript, TypeScript, C, SQL, HTML/CSS  
**Databases:** Oracle SQL, PostgreSQL, MySQL, MongoDB, PL/SQL  
**Data Manipulation & Visualization:** Pandas, NumPy, Matplotlib, Seaborn, Tableau, Power BI, PySpark  
**Frameworks:** React, Django, Redux, Node.js, Express, WordPress, Material-UI, Bootstrap, Tailwind CSS  
**Dev Tools:** Git, GitHub, Jupyter Notebook, Google Collab, VS Code, DataGrip, PyCharm, IDEA, Postman, Jira  
**Other Skills:** Windows, Linux/Unix (Ubuntu, CentOS), Shell Scripting, Microsoft Excel, Google Sheets

## PROFESSIONAL EXPERIENCE

- Student Data Analyst Intern** | *Power BI, Oracle SQL, MS Excel, Python, SharePoint* May 2025 – Present  
*Office of Institutional Analysis, University of Windsor* Windsor, Ontario, Canada
- Developed and maintained **centralized data models and reports** using **SQL, Power BI, and Excel**, improving accessibility of key institutional metrics across departments.
  - Performed **data extraction, transformation, and quality assurance** on large university datasets (100K+ records) using **SQL and Python**, ensuring accuracy and consistency in reporting.
  - Created clear **process documentation and reporting guidelines**, enhancing reproducibility of analysis and reducing onboarding time for new team members.
- Software Engineer** | *Oracle SQL, MS Excel, Python, Bash/Shell Scripting, Java, Linux, Jira* Jul 2022 – Mar 2024  
*Vermont Information Processing* Mumbai, India
- Ensured data integrity by cleaning, preprocessing and validating data in **Oracle SQL** and **MS Excel**, fixing 95% of data quality issues, and providing detailed analysis reports for price plans, reimbursements and chargebacks.
  - Reduced issue resolution time by 40% for 100+ customer-reported issues by performing in-depth root cause analysis (RCA) on legacy app server and Oracle database, leading to faster issue identification and customer satisfaction.
  - Automated ETL workflows by implementing **Bash/Shell** scripts, optimizing data workflows, and reducing manual interventions by 20%, which led to streamlined data onboarding efficiency.

## PROJECTS

- Loan Insights Dashboard** | *Power BI, SQL, Data Visualization, Dashboard Design, Financial Analytics, Git* Jan 2025  
[GitHub](#)
- Developed an interactive loan data analysis dashboard using **Power BI** and **SQL**, enabling real-time insights into 5+ key financial metrics, borrower behavior, and loan performance, improving data accessibility for decision-makers.
  - Enhanced data visualization and reporting by implementing **10+ KPI** tracking, trend analysis, and loan classification, improving financial strategy planning.
  - Optimized loan performance tracking by improving **data processing** and designing **3 interactive dashboards**, enabling better risk assessment and lending pattern identification.
- Predictive Caching for Web Pages** | *Python, Pandas, Matplotlib, Statsmodels, Scikit-learn, Git* Nov 2024  
[GitHub](#)
- Created a hybrid AI-driven caching system combining **ARIMA** for time-series forecasting and LLM for contextual analysis, improving cache efficiency and reducing latency in high-traffic scenarios.
  - Automated data preprocessing for 1M+ records, implementing normalization, and missing value imputation leveraging **Python** and **Pandas**, to guarantee reliable data for predictive models, and conducted exploratory data analysis (EDA) on 500K+ web traffic data to identify trends and visualize key insights with **Matplotlib**.
  - Built and optimized ARIMA models to forecast future page views, achieving high accuracy with RMSE values of **4.41** for ARIMA and **4.67** for Auto-ARIMA, and generated forecasts for the next 30 days.

## EDUCATION

- University of Windsor** | *Available for 4–8 month Co-op/Internship Starting May 2025* Windsor, ON  
*Master of Applied Computing (Grade: 88.44%)* May 2024 – Present
- University of Mumbai** Mumbai, India  
*Bachelor of Engineering - Computer Engineering (CGPA: 8.58/10)* Aug 2018 – May 2022