



HARSHAL SAWANT

☎ 312-885-9643 ✉ harshaldattasawant@gmail.com  [harshal29](#)  [harshalsawant29](#)

Education

Illinois Institute of Technology

August 2023 – May 2025

Master of Science in Information Technology and Management | GPA: 3.9/4.0

Chicago, IL

Coursework: Data Analytics, Machine Learning, Data Mining, Data Warehousing, Service Oriented Architectures, Advanced Data Management, Data Security, Web Application Development, Project Management.

Professional Experience

MSI Express

May 2024 – August 2024

Data Analyst intern

Batavia, IL

- Architected and deployed **data models** and **ETL pipelines** into production using **Snowflake** and optimized complex **SQL** queries, enhancing data warehouse reliability and supporting critical business reporting.
- Automated daily **API data ingestion** into **Redshift** using **Python**, parsing **JSON/XML** with plugins, improving sync accuracy by **50%** and supporting **dashboards** used by **4 departments**.
- Utilized **SQL** to create **3 self-service Tableau dashboards** and presented them in an organization-wide meeting uncovering untapped **KPIs**, driving immediate actions that prevented over **\$320k** in potential risk.
- Spearheaded **cross-functional** teams to build an **end-to-end** web solution using **Redshift DB**, **Smartsheet**, **Flask** and **React**, eliminating **100%** of manual efforts leading to a **50%** turn time improvement.
- Consolidated data from **WMS** and **ERP** systems into a centralized database, saving **40+ hours** monthly.

BienCaps Systems Pvt Ltd

August 2021 – June 2023

Software Engineer

India

- Collaborated in an **agile** environment to manage integrations using **Git** and **Jira**, reducing deployment time by **35%**.
- Employed **Firebase** to handle secure data storage and **authentication** across **multi-platform** apps, supporting over **400** real-time data sync operations with **99.9%** transaction success rate.
- Developed **UI** for a user-friendly software with **5000+** daily users and conducted **A/B testing**, ensuring **95% SLA compliance rate** and boosting user satisfaction by **35%**.
- Conducted **root cause analysis** via **Ad-hoc SQL** queries to troubleshoot database issues and other business requests, reducing data inconsistencies by **40%** and accelerating reporting cycles.
- Deployed an automated UOM conversion system in **Databricks**, enabling **2x faster** and reliable **reporting**.
- Optimized complex queries in Redshift using **SQL joins**, **sub-queries**, and **triggers**, and streamlined **weekly KPI reports** with **Power BI** and **DAX**, reducing delivery time by **80%**.
- Conducted stakeholder meetings to interpret survey and engagement findings, resulting in improved **feature prioritization**.

Projects

InfoGenie - Personalized AI-Powered Assistant for Any Website

- AI-powered chatbot that scrapes content from user-provided URLs and dynamically selects an optimal **LLM** based on available compute power, enabling real-time, context-aware Q&A without the need for manual browsing.

LinkedIn Data-Mart

- Built an **ETL** pipeline using Pentaho (Kettle) and visualized user profile information using **Power BI**.

Skills

Languages: Python (NumPy, Pandas, Scikit-learn, SciPy), Java, JavaScript, SQL, R.

Databases: Amazon Redshift, Snowflake, Oracle, PostgreSQL, MySQL.

Developer Tools: VS Code, Pentaho (Kettle), Figma, GitHub/Gitlab, JIRA, Smartsheet, Power Automate.

Technologies/Frameworks: Linux, WordPress

Data Analysis and Governance: Tableau, Power BI, Microsoft Office Suite, Unity Catalog.

Cloud: AWS (EC2, S3, IAM, Lambda), Microsoft Azure (Data Factory, Data Lake Storage, Databricks).

Big Data: Spark (PySpark)

Honors and Achievements

- **Outstanding Academic Award** – Illinois Institute of Technology, 2025
- **Outstanding Achievement Award** – MSI Express, Summer Internship 2024