

Professional History

- ❖ **Highly skilled Data Analyst & Business Analyst with expertise in data modeling, process optimization, and strategic decision-making.**
- ❖ **Proficient in SQL, Python, and ETL workflows, with hands-on experience in Tableau, Power BI, and Looker for data visualization.**
- ❖ **Adept at database optimization, predictive modeling, and statistical analysis** to extract actionable insights.
- ❖ **Strong background in stakeholder collaboration, translating business needs into technical specifications using Confluence, JIRA, and UML.**
- ❖ Experienced in **data migration, system cleanup, and automation** to enhance operational efficiency.
- ❖ Experienced in developing interactive dashboards and data visualization applications using ReactJS, React Native, and Redux-Promise to enhance user experience and real-time data insights.
- ❖ Passionate about leveraging **data-driven solutions** to drive business growth and process improvements.
- ❖ I am skilled in **predictive modelling, advanced data analysis, and trend analysis** to generate actionable insights.
- ❖ Knowledgeable in **Lean methodologies** for continuous process improvements, ensuring efficient project delivery.
- ❖ Experienced in **data migration, system cleanup,** and ensuring **data integrity** across various enterprise systems.
- ❖ Proficient in generating **ad-hoc reports** and **key performance indicators (KPIs)** for business and financial analysis.
- ❖ Experienced **Business Analyst** designing system workflows, **process maps,** and **standard operating procedures (SOPs)** to streamline operations.

TECHNICAL SKILLS AND TOOLS

Requirement Documentation & Analysis	Confluence, JIRA, UML, Visio
Data Integration & Processing	SQL, Python, Informatica, ETL workflows, Snowflake, Azure Pipelines, NoSQL (MongoDB, Cassandra), MySQL, PostgreSQL, PL/SQL
Database Optimization & Querying	Advanced SQL queries, database schema analysis, Snowflake, Databricks, Looker
Data Visualization & BI Tools	Tableau, Power BI, Figma, real-time dashboards, Matplotlib, Seaborn
Data Analytics & Statistical Modelling	Predictive modeling, advanced data analysis, risk and trend analysis
Project & Process Management	Lean methodologies, SOP development, workflow design, process mapping
System Migration & Cleanup	Data migration, integrity validation, cleanup initiatives
Bug Tracking & Quality Assurance	JIRA, test case development, issue resolution
Operating Systems	Windows, Linux, MacOS & Cloud-Based Systems
Middleware Implementation	Redux-Promise, middleware optimization for data handling
Business Intelligence	Key performance indicators (KPIs), financial analysis, ad-hoc reporting
Client-Specific Solutions	Customized reporting, health metrics insights, portfolio performance assessments
OPERATING SYSTEM	Windows, Linux, MacOS & Cloud-Based Systems

Work History

Business/Data Analyst

May 2023 – Current

Mango Analytics - Branford, CT

As a Business/Data Analyst at Mango Analytics, I documented stakeholder requirements and translated them into technical specifications using Confluence. I led the development of a Data Lake warehouse for sales applications and automated ETL workflows with SQL and Python to improve data processing. Additionally, I created and maintained real-time dashboards in Tableau and Power BI, providing strategic insights for decision-making and improving operational efficiency.

- **Documented stakeholder requirements** in Confluence, converting business needs into detailed technical specifications.
- **Designed and maintained dashboards** in Tableau and **Power BI**, driving strategic decision-making through actionable insights.
- **Led a cross-functional team** to develop a Data Lake warehouse supporting enterprise sales applications.
- **Automated ETL workflows** using **SQL and Python**, improving data processing efficiency.
- **Conducted system gap and cost-benefit analyses**, ensuring alignment with business objectives.
- **Designed and implemented scalable NoSQL databases** using **MongoDB and Cassandra**, **optimizing** data retrieval and storage for high-performance applications and ensuring seamless scalability across distributed systems
- **Analyzed market trends, financial data, and operational risks, generating actionable insights for strategic planning.**
- **Implemented data cleanup processes**, ensuring integrity and reducing duplication in critical systems.
- **Created detailed business process designs** in Confluence using Visio and UML, streamlining SOPs.
- **Improved incident management efficiency** by utilizing **JIRA** for Incident Control Tower project coordination.
- **Designed compelling PowerPoint visuals**, translating complex data into understandable formats for stakeholders.

- **Designed SQL queries and Databricks workflows**, seamlessly integrating finance and sales systems.
- **Guided test case development** in **JIRA**, ensuring robust functional and technical coverage.
- Created **dynamic Excel dashboards** with **pivot tables, Power Query, and VBA**, improving **financial modeling and forecasting**.
- Automated **data reconciliation processes** in **Excel**, reducing manual effort by **50%**.
- Designed **Excel-based financial models**, enabling the finance team to perform **what-if analysis** for budgeting decisions.
- Developed **KPI trackers and reports** in **Excel**, helping sales and operations teams monitor performance trends effectively.

Data Analyst

March 2021 – December 2022

Higi Health - Lexington, MA

I enhanced healthcare kiosks by improving data integration, real-time processing, and UI responsiveness, leading to better data accuracy and performance. I developed key features like push notifications and telehealth options using React Native and ReactJS. I optimized SQL queries and generated critical health reports for clients like Rite Aid and Dollar General.

- **Enhanced healthcare kiosks** by improving data integration, real-time processing, and **UI** responsiveness, achieving higher data accuracy and faster UI responses.
- **Optimized Data modelling strategies, SQL queries and database schema**, significantly enhancing performance for large datasets with faster data retrieval processes.
- **Developed key features** such as push notifications, health metrics visualization, chart presentations, telehealth options, and kiosk functionalities using **React Native and ReactJS**, improving customer engagement and user experience.
- **Generated ad-hoc reports in Snowflake** for clients like **Rite Aid, Dollar General, and Giant Eagle**, providing critical health insights and supporting client-specific initiatives.
- **Analyzed health metrics** collected from kiosks to detect early signs of health risks, enabling proactive measures and improving customer health outcomes.
- **Created automated reports** with bar, line, pie, and distribution charts, offering clients improved visibility into health metrics with user-friendly filtering options.
- **Utilized Confluence for documentation**, Figma for design collaboration, and Azure pipelines for **CI/CD** processes, streamlining project management and deployments.
- **Resolved over 100 bug tickets on JIRA**, addressing design, **API** behaviors, and feature functionalities, ensuring smooth operations and reliability of software solutions.
- **Implemented middleware solutions with Redux-Promise**, optimizing data handling with reduced retrieval times and server calls.
- **Leveraged advanced SQL and Looker** to deliver real-time insights to stakeholders, enhancing decision-making for health monitoring and preventive care.

Data Scientist/Data Analyst

June 2019 - February 2021

Capital one – McLean, VA

Designed and implemented scalable machine learning models and pipelines using **Python, TensorFlow, and Keras**, supporting initiatives such as fraud detection, customer churn prediction, and recommendation systems.

- Developed and maintained end-to-end **ML pipelines** using **MLflow, Azure Databricks, and H2O.ai**, ensuring reproducibility and deployment-readiness
- Applied **deep learning techniques** including **CNNs and RNNs** for computer vision and time-series prediction tasks.
- Engineered features using **n-grams, TF-IDF, word2vec**, and handled **imbalanced datasets** using appropriate sampling and evaluation metrics.
- Implemented classification algorithms such as **Logistic Regression, SVM, KNN, Naive Bayes, and Decision Trees** for supervised learning.
- Utilized **Pandas, NumPy, SciPy, Seaborn, and Scikit-learn** for data wrangling, visualization, and model development.
- Created advanced **Power BI reports and dashboards, integrating SSAS Tabular models** for real-time business insights.
- Collaborated with **data architects and IT teams to design data flows, storage strategies, and schemas** using **ER Studio 9.7**.
- Updated **Python scripts** to process and classify documents stored in **AWS Cloud Search**, improving data labeling accuracy.
- Processed and transformed data in **Hive, MapReduce, and HDFS**, enabling efficient analysis of large-scale datasets.
- **Programmed custom Python utilities to automate model training, data ingestion, and scoring across diverse data formats (JSON, XML).**
- **Provided technical mentorship to junior data scientists and championed MLflow best practices across teams.**
- **Participated in Agile ceremonies, contributing to sprint planning, retrospectives, and continuous delivery of high-quality ML models.**
- **Led research and implementation of new big data tools and patterns, contributing to the design of sustainable platforms for enterprise use.**
- **Managed data transformation, feature engineering, and storage from multiple sources to support advanced analytics and machine learning.**

Data Analyst

June 2016 - March 2019

Four Tuples Solution

I developed automated ETL workflows using **SQL, Python, and Informatica** to optimize data consistency across banking, microfinance, and sales datasets. I also created Tableau and Power BI dashboards to enhance decision-making, while conducting data analysis and predictive modeling to improve financial planning and loan recovery rates.

- **Gathered and analyzed detailed business and technical requirements** through stakeholder interviews and **Joint Application Development (JAD)** sessions, ensuring project alignment and clarity.
- **Developed automated ETL workflows** using **SQL, Python, and Informatica**, optimizing data consistency for

banking, microfinance, and sales datasets.

- **Conducted data analysis and visualizations** for microfinance and investment clients, supporting financial planning, risk management, and **portfolio** performance assessments.
- **Designed SQL-based workflows** for financial datasets, streamlining loan performance tracking and detailed portfolio analysis.
- **Created Tableau and Power BI dashboards** to visualize sales & financial **KPIs**, enhancing executive visibility and decision- making.
- **Engaged in continuous process improvements** using Lean methodologies, driving faster project completion and operational efficiency.
- **Played a key role in data migration and system cleanup initiatives**, improving data accuracy and reliability across enterprise systems.
- **Developed standard operating procedures (SOPs), workflows, and process maps**, enhancing operational efficiency and reducing document retrieval times.
- **Conducted predictive modeling and advanced analytics**, improving loan recovery rates and boosting profitability in investment portfolios.
- **Designed a new data visualization strategy**, improving the accuracy of management reports and enabling more actionable business insights.

EDUCATION:

Georgia Institute of Technology

- MS in Analytics (Expected), Atlanta, GA

Aug. 2019 – May 2025

University of Massachusetts, Boston, MA

- MS in Applied Physics

Sep. 2013 – Sep. 2015