

Ramtin Alikhani

[GitHub](#) | Ramtinal1995@gmail.com | [LinkedIn Page](#) | [My Web Portfolio](#)

Skills

Programming Languages: Python (Pandas, Seaborn, Matplotlib, Plotly, Panel Panes, OpenLM, BeautifulSoup), R

Data Analysis: MS Excel (Pivot Tables, XLOOKUP, Functions, Conditional Formatting, Dashboards)

Databases: InfluxDB, SQL (MySQL), MariaDB

Visualization & Reporting: Microsoft Power BI, Tableau, AWS Quicksight, Google Looker

Data Skills: Data Normalization, Data Cleaning, Data Quality, Data Integrity, Data Abstraction, Data Visualization

Project Management: SCRUM, Agile, Atlassian Confluence, JIRA

Cloud: Amazon (S3, Athena, Glue, Quicksight), Microsoft Azure (Data Studio, Data Factory, Synapse)

Data Engineering Tools: ETL Workflows, Parquet, JSON, CSV, Scala

Software Engineering: Git, Github, Gitlab, SVN, CI/CD, Jenkins, HTML, CSS, JavaScript, Go, Ruby, Rust

Other Skills & Tools: Health Informatics, Health Records, Clinical Data, Epidemiology, Statistical Analysis, Healthcare Compliance, Medical Coding, CIHI Data, KPI Reporting, Business Intelligence, Process Improvement

Projects

World Layoffs Data Cleaning, Personal Project – Mississauga, ON January 2025

- Utilized **MySQL** to clean and optimize a dataset of 2,361 records by removing 100% of duplicates and irrelevant rows through **partitioning**, **filtering**, and **row-number** techniques.
- Standardized 15+ industry categories and corrected 50+ inconsistent entries using **string manipulation** (Trim, Update, and Case statements) to ensure data accuracy.
- Transformed 2,300+ text-based dates into proper date formats with **STR_TO_DATE** and altered table structures to enable seamless time-series analysis.

Customer Data Cleaning, Personal Project – Mississauga, ON January 2025

- Cleaned and standardized a dataset of 1,020 customer records using **Python** and **Pandas**, removing 100% of duplicates, null values, and inconsistent entries across multiple columns.
- Transformed 300+ phone numbers into a uniform format using **regex** and **Apply**, and split multi-part addresses into three separate columns (Street, State, ZIP) for improved usability.
- Standardized categorical values in 2 columns (e.g., "Paying Customer" and "Do Not Contact") and dropped irrelevant columns, reducing dataset size by 10% while preserving key insights.

Data Professional Survey Analysis, Personal Project – Mississauga, ON January 2025

- Cleaned and transformed a dataset of 630+ survey records, consolidating 50+ job titles into 7 standardized categories for accurate analysis.
- Parsed and averaged 100+ salary ranges into numerical values, improving usability for visualization in **PowerBI**.
- Created 5+ interactive visualizations (**bar charts**, **tree maps**, **graphs**) to analyze trends in job satisfaction, salaries, and programming language preferences.

Engineering Capstone, Conestoga College – Cambridge, ON January 2021 – August 2021

- Designed a wireless monitoring system for industrial equipment, processing live sensor data from 10+ parameters (e.g., humidity, temperature) via Bluetooth.
- Developed a **Python**-Django backend connected to a **MySQL** database handling large records of data, achieving real-time data visualization with **Looker Studio**.
- Reduced data retrieval times by 20% through **SQL query optimization** and **indexing** techniques.

Professional Experience

Automation Engineer , MDA Space – Montréal, QC	November 2023 – May 2024
<ul style="list-style-type: none">Automated project tracking by developing Python scripts with the Atlassian-Jira library, correcting 20+ misassigned tasks and subtasks weekly, ensuring data accuracy and streamlined workflows.Designed Python-based license optimization scripts with an OpenLM wrapper, analyzing 50+ software licenses and servers to reduce costs and improve resource allocation.Implemented a Jenkins-integrated Python solution to detect and alert for duplicate Confluence templates, improving documentation efficiency and reducing manual review time by 30%.Developed and unit-tested scripts in C# and Python, leveraging Pytest to ensure robust automation for software tools used by engineers.	
Data Engineering Consultant , Adastra Corporation – Markham, ON	January 2022 – June 2023
<ul style="list-style-type: none">Optimized ETL pipelines processing big data monthly for Rogers Bank using Azure Synapse and SQL, increasing processing speed by 35%.Automated data ingestion processes in Azure Databricks, reducing manual intervention by 50% and improving workflows by 65%.Supported Azure Databricks operations by developing custom notebooks and clusters, streamlining data ingestion workflows.Populated tables with SQL scripts for comprehensive testing and validation.Conducted root cause analysis and error tracking for data failures, resolving critical bugs and increasing system reliability by 75%.Conducted training sessions for junior consultants on Azure Data Factory workflows, improving team proficiency by 30%.	
Embedded Systems Software Co-op , Ciena – Ottawa, ON	August 2021 – December 2021
<ul style="list-style-type: none">Improved system performance by debugging and optimizing scripts for deployment using in-house build tools.Contributed to team retrospectives, identifying process inefficiencies that reduced sprint carryover by 20%.Utilized Docker for image creation, reducing build times by 10%.Developed automated scripts for configuration file updates, reducing manual effort by 30% in deployment processes.	
Software Developer Co-op , Maerospace – Waterloo, ON	August 2020 – December 2020
<ul style="list-style-type: none">Designed and deployed 10+ Python and Bash scripts to ingest and process 500MB+ daily time-series data from InfluxDB, improving data extraction efficiency by 30%.Created Python and Bash scripts for automating data pipeline tasks, reducing manual intervention by 20%.	
Software Developer Co-op , Blackberry/QNX – Ottawa, ON	May 2019 – August 2019
<ul style="list-style-type: none">Automated over 50 regression test cases for OpenSSL using Python, reducing manual testing time by 40%.Developed Python scripts with advanced regex to parse and analyze test results from large datasets, improving debugging efficiency by 25%.Managed nightly Jenkins test runs, integrating over 30 test cases and ensuring 20% error-free SCP file transfers across servers.Conducted code reviews for scripts weekly, achieving an 80% code acceptance rate within Agile team workflows.	
Education	
Conestoga College – Electronics Systems Engineering, Bachelor of Engineering	December 2021
Certifications & Training	
Data Analyst Bootcamp - Alex The Analyst	Jan 2025
Learning Excel: Data Analysis - LinkedIn Learning	Dec 2024
Data and Health Indicators in Public Health Practice - Johns Hopkins University, Coursera	Ongoing