LinkedIn:

Michael Shibu

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Education:

Expected graduation May 2027

University of Houston

Bachelor of Science, Computer Science

Technical Skills/Scholarships:

Data & Analytics: SQL(MySQL), Data Modeling, Data Cleaning, Query Writing, Data Analysis
Programming: Python, C++, JavaScript
Tools: Git, GitHub, REST APIs,
Database: Oracle, SQL Server, GitHub
Reporting Tools: MS Excell, Power BI
Relevant Coursework: Database Management, Big Data Analytics, Distributed Systems, Cloud Computing, Data Structures & Algorithms, Fund. AI intelligence, Operation Systems, Software Design
Scholarships Awarded: Texas A and M Century Plus Scholarship- 40K, UT Dallas Academic Excellence Scholarship- 15K

Projects:

-C++ Multithread HTTP File Server:
- Built a custom HTTP file server in C++ capable of handling browser requests and serving static web pages.
- Implemented socket-based networking to process HTTP requests from clients.
- Designed a multithreaded architecture allowing the server to handle multiple client connections simultaneously.
- Implemented request parsing and routing to serve files from a public directory.
- Logged HTTP requests and responses in the terminal for debugging and monitoring.
- Strengthened understanding of networking protocols, concurrency, and server architecture.

-Document Search Engine (C++):
- Developed a command-line search engine in C++ that indexes and searches through document collections.
- Implemented text parsing and tokenization to process large text files efficiently.
- Built an inverted index data structure to map words to the documents in which they appear.
- Designed a ranking mechanism to return the most relevant documents based on search queries.
- Optimized search performance using hash maps and efficient lookup structures.
- Strengthened experience with data structures, algorithm design, and text processing.

-Stock Market Data Analyzer (Python):
- Built a Python-based data analysis tool that processes stock market datasets to identify trends and performance metrics.
- Implemented data cleaning and preprocessing to handle missing or inconsistent financial data.
- Calculated key indicators such as moving averages, volatility, and return metrics.
- Generated summary statistics and visualizations to support financial analysis.
- Strengthened experience working with real-world financial datasets and data-driven decision making.

-Museum Database & Analytics Project: https://homiesmuseum.site
- Cleaned and structured raw data to improve query efficiency and data consistency
- Translated real-world requirements into database schemas and analytical queries
- Gained hands-on experience using SQL to turn stored data into meaningful and useful insights

-Sales & Customer Data Analysis (SQL + Python)
- Created a structured dataset simulating customer transactions and sales records
- Used SQL to calculate revenue trends, customer frequency, and product performance
- Performed data cleaning and analysis using Python to identify patterns and outliers
- Generated summary statistics to support data-driven business decisions

-Reddit Data Analysis Bot
- Built a Python program to collect and analyze Reddit posts and comments
- Filtered large volumes of text data to identify keyword trends and engagement levels
- Structured unorganized text data for easier analysis
- Strengthened experience working with real-world, messy datasets

-Autocorrect NLP Analysis Tool
- Developed a Python-based tool to analyze text input and correct spelling and grammar
- Processed unstructured language data to identify common error patterns
- Improved accuracy by combining rule based logic with pre-trained NLP models
- Built understanding of how data quality impacts model performance

Work Experience:

-Outlier AI- AI efficiency trainer/ prompt engineer — Oct. 2025 – present/contract
Trained large language models (LLMs) to improve computational accuracy, data relevance, and contextual output in analytical domains, enhancing AI driven business applications

-UH intrmurals referee- — Sep. 2025- present
Refing basketball, soccer, and volleyball games for intramural tournaments.

Additional Info:

Languages: English- native, Malayalam- native, Spanish- professional working fluency
Interests: Basketball, finance, crypto, stock market, AI