

# MANVI KISHORE

manvi.kishore07@gmail.com | +1-260-418-9090 | linkedin.com/in/manvikishore

## Skills

Languages: C#, .NET, Python, Java 17, JavaScript, SQL, ReactJS, NodeJS

Data Management And Cloud: MySQL, NoSQL (MongoDB), AWS (EC2, S3, RDS, Redshift, EMR, Lambda), Kubernetes, GCP

Technology And Frameworks: .NET, ASP.NET, Spring Boot, REST API, Maven, Microservices Architecture, Object Oriented

Testing And Ci Cd: Mocha, Cypress, SonarQube, JUnit, TDD, Git, GitHub, TeamCity, Jenkins, JIRA, Agile

## Experience

Senior Software Engineer at Deutsche Bank | January 2023 ■ July 2023

- Achieved a 65% reduction in execution time by redesigning and optimizing Java based ETL microservice applying predicate pushdown
- Improved maintainability and readability by refactoring legacy Java codebase using SOLID principles, DTO patterns, Lombok
- Mentored junior developer and improved code quality by conducting peer code reviews and promoting TDD and clean code

Software Engineer at Deutsche Bank | August 2020 ■ December 2022

- Reduced SLA breach penalties by 25% by developing and deploying the Almanac microservice using Java 17, Spring Boot
- Saved multimillion-dollar penalties by establishing the Almanac service as a core component of the regulatory data ecosystem
- Enabled regulatory reporting for ingesting JSON loan data by architecting a Java-based ETL microservice with Hadoop, Spark
- Improved observability by building REST APIs with Spring MVC and exposing system metrics via Prometheus and Grafana
- Built Hive-based automation to convert data to ORC format using J2EE and pySpark, saving over 7 man-days per cycle
- Created automated unit/integration test suites using Junit 5, Mockito, and Spring Test
- Used Singleton and Factory design patterns to improve processing speed and code modularity
- Integrated microservices into Apache Storm for real-time resolution, supporting 15,000+ feeds
- Implemented Kerberos-based auth and OAuth2 in microservice mesh

## Education

MS, Computer Science - Purdue University | August 2023 ■ May 2025 | GPA: 4.0/4.0

BTech, Computer Science - Motilal Nehru National Institute of Technology | July 2016 ■ June 2020 | GPA: 3.25/4.0

## Projects

AWS ETL Pipeline for HTAP Database Comparison ■ Thesis | August 2024 ■ April 2025

- Developed an AWS ETL pipeline using Redshift, RDS, EMR, and S3 to compare HTAP (TiDB) with traditional ETL methods
- Created PySpark scripts to transform CSV/JSON data for Redshift ingestion via EMR cluster
- Examined real-time transactional ingestion versus conventional ETL workflows for analytical workloads
- Benchmarked TPC-H and SSB to assess query performance and schema impact

.NET Core Web API for Task Management | June 2024 ■ August 2024

- Designed and implemented a RESTful API using .NET Core, C#, and ASP.NET to manage tasks and user authentication
- Utilized Entity Framework Core for database interactions and code-first migrations, working with SQL Server.
- Implemented JWT (JSON Web Token) for secure authentication and authorization within the API.
- Developed comprehensive unit tests using xUnit and Moq to ensure code quality and reliability.

## Honors & Awards

- Defended and published master's thesis, DOI: <https://doi.org/10.25394/PGS.28908275.v1>
- Nominated for Top 50 students 2025 at Purdue University
- Research paper under review at DEXA 2025 ■ International Conference on Database and Expert Systems Applications
- Received Employee Recognition Award at Deutsche Bank, 2022