

Harsh Wadhawe

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Education

Texas A&M University, Mays Business School

College Station, Texas

Master of Science in Management Information Systems

June 2026

COEP Technological University

Pune, India

Bachelor of Technology in Computer Engineering

June 2022

Work Experience

Graduate Teaching Assistant, INFO Department - Mays Business School

Jan 2025 – Present

- Developed interactive modules in Excel, SQL, and web development, integrating real-world problem solving with Agile methodologies.
- Automated grading processes and optimized database queries to streamline evaluations for 100+ students.

Big Data Engineer, CITI

Aug 2023 – June 2024

- Engineered ETL pipelines to transform raw financial data from a Data Lake into actionable insights, collaborating with cross-functional teams.
- Designed and optimized distributed data models using PySpark, Java, Scala, and Hadoop, resulting in a 30% increase in operational efficiency.
- Leveraged data mining techniques to extract valuable patterns, and enhanced infrastructure with Cloudera, Apache HBase, and Hue, improving processing speeds by 35%.

Software Developer, CITI

July 2022 – July 2023

- Architected and implemented scalable web services using Java and Spring Boot within a microservices framework, applying object-oriented design principles.
- Led the migration from Tibco EMS to a multi-broker Apache Kafka cluster, establishing robust distributed storage and real-time data streaming, which improved throughput by 40%.
- Developed and maintained RESTful APIs with comprehensive testing (JUnit, Pytest, Swagger) to ensure high-quality code and system reliability.
- Employed advanced shell scripting on Linux systems to optimize runtime configurations, reducing manual intervention by 50%.

Certifications

- **AWS Certified Data Engineer – Associate**
- **AWS Certified Solutions Architect – Associate**
- **Machine Learning Specialization** — Stanford University & DeepLearning.AI
- **Professional Scrum Product Owner I (PSPO I)**

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Projects

Real-Time Data Pipeline on AWS using Kafka and Spark

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- Developed a real-time data ingestion and processing pipeline on AWS EC2 using Apache Kafka and Spark Streaming.
- Employed Python for data cleaning and transformation, ensuring high data quality and reliability.
- Productionized the pipeline to integrate with existing systems, thereby enhancing real-time analytics and distributed storage capabilities.

Document RAG Chatbot

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- Created an end-to-end Retrieval-Augmented Generation (RAG) model using ChromaDB and OllamaLLM to handle document-based queries.
- Processed PDF uploads and generated document embeddings, delivering contextualized responses via Flask.
- Deployed the solution on AWS Elastic Beanstalk, ensuring scalability and robust performance.

Leadership Activities

Product Owner - WalkMe Application Integration

- Took charge of the WalkMe application integration at CITI following a leadership transition, ensuring project continuity through Agile sprint planning.
- Facilitated cross-team collaborations that led to a 20% boost in plugin functionality efficiency.

Lead Developer - Data Pipeline Development

- Led a team of five developers in designing and deploying a distributed Data Lake pipeline, improving data processing speeds by 35%.
- Coordinated with analysts and subject matter experts to optimize workflows and resolve technical challenges.

Technical Skills

Programming Languages: Python, Java, C++, Go, Scala, SQL (*familiar: C#, Perl*)

Core Competencies: Object-Oriented Design, Data Structures, Algorithms, Operating Systems (Linux, Windows)

Distributed Systems: Distributed Storage, Web Services, Microservices Architecture, Apache Kafka, Hadoop

Big Data & Data Mining: Apache Spark, Hive, HBase, Cloudera, Hue, Flink, Data Mining Techniques

ETL & Data Warehousing: Data Modeling, ETL Development, Apache Airflow, MapReduce

DevOps & Cloud: Git, Docker, Kubernetes, Jenkins, AWS, Databricks, CI/CD

Data Visualization: Tableau, Power BI, Pandas

Methodologies: Agile, Scrum

Additional Skills: Shell Scripting, UNIX, Project Management

Achievements

Publication: Electronic Health Record Management using Hyperledger Fabric

- Presented at the 2022 ICCUBE Conference and published in an IEEE journal.
- Developed a blockchain-based system for secure, decentralized management of electronic health records, enhancing data privacy.