Nikhil Mhatre

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SUMMARY

Software Engineer with 2+ yrs building **cloud-native solutions** and secure API backends using Python, Java and TypeScript. Designed, deployed, and tuned high-throughput Spark & Kafka workflows for significant efficiency gains. Graduating MS- CS program focused on distributed systems and cloud computing with a 4.0 GPA.

EDUCATION

University of Texas at Arlington | TX, USA

August 2023 - May 2025

Master of Science | Computer Science

GPA: 4.0/4.0

Relevant Courses: Data Analysis and Modeling Techniques, Cloud Computing & Big Data, Machine Learning, Distributed Systems, Secure Programming

Mumbai University | Navi Mumbai, India

August 2017 - July 2021

Bachelor of Engineering | Computer Science & Engineering

Relevant Courses: Database Management System, Object-oriented Programming, Artificial Intelligence, Operational Research

PROFESSIONAL EXPERIENCE

Data Engineer, LTIMindtree

June 2021 - July 2023

- Designed Java-based serverless microservices on AWS (Lambda, MSK) to ingest and process real-time employee lifecycle events to stream validated data to downstream audit systems
- Steered a cross-functional investigation of **HRIS** data anomalies across 40,000+ global records, analyzing **Spark** scripts and **Informatica** workflows, collaborating with Business Analysts and Data Scientists to implement a fix that **improved data accuracy**
- Developed workflows using **Python, stored procedures**, and **materialized views** that **eliminated 5+ hours** of manual effort weekly while enhancing data visibility and business insights through interactive Power BI dashboards
- Engineered and optimized **event driven ETL data** pipelines using **Snowflake**, **Spark**, **Kafka**, **Scala**, and **SQL**, processing data from 20+ sources, improving pipeline efficiency by 15%, and implementing data validation checks to maintain accuracy
- **Documented** software architecture, APIs, and runbooks to improve debugging and troubleshooting for **production incidents**, reducing Mean Time to Recovery by 40%

Research Assistant, Ramrao Adik Institute of Technology

May 2019 - June 2020

- Led a team of five to reduce research paper processing time by developing a solution with version control and discussion boards
 using PHP, MySQL, and JavaScript
- Digitized voting for Mumbai University student election system, resulting in automation for 750+ affiliated institutions
- Built a scalable attendance management platform capable of handling 15k+ concurrent requests using React and Spring Boot
- Recognized with Best Summer Internship Project for delivering high-impact automation solutions

SKILLS

- Programming Languages: Java, Python, SQL, JavaScript (React/Node.js), Scala, Bash
- Cloud & DevOps: AWS (Lambda, S3, SQS, MSK, CDK), CI/CD Pipelines (GitHub Actions, Jenkins), Docker, Kubernetes, Snowflake
- Data Engineering: Apache Spark (Core, SQL), Kafka, Airflow, Flink, Hadoop, HiveQL, GCP BigQuery, PySpark, DataBricks, DBT
- Databases: DynamoDB, MongoDB, Azure SQL, MySQL, Redis
- Frameworks/Tools: Spring Boot, gRPC, TensorFlow, REST APIs, Informatica, Power BI

CERTIFICATIONS

- AWS Certified Developer-Associate
- SnowPro Core: Snowflake
- Meta Front-End Developer Certificate
- JavaScript: Microsoft

PROJECTS

AI Enhanced Fitness Tracking Platform

2025

- Led a 5-person team to develop a full-stack Al-powered fitness tracking application using React, Next.js, and AWS, managing end-to-end development from architecture to production deployment
- Architected backend (repository pattern/dependency injection) and React frontend (atomic design/Redux), integrating OAuth security and an ML recommendation engine to improve user engagement

Distributed Key Value Storage using Raft Algorithm

2024

- Implemented distributed consensus using Raft Algorithm Java, Python, gRPC ensuring fault tolerance with leader election recovery in under 5 seconds and simulated network failures and optimized RPC communication for minimal latency
- Enabled robust handling of permanent failures with minimum data overhead by using Merkel Tree for state synchronization
- Simulated network partitions and automated recovery for more than five failure scenarios, ensuring high system availability

No-Code Data Pipeline Creator (a cloud-native web application)

2024

- Developed no-code ETL platform by integrating PySpark with GCP services(Dataflow, BigQuery), validating 20+ transformation workflows across structured and unstructured test datasets
- Engineered a secure React frontend with OAuth 2.0 authentication and chunked multipart uploads to cloud storage, automating CI/CD via GitHub Actions to achieve high test coverage and slash deployment time from 30 to 5 minutes