

Amritanshu Singh

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SUMMARY

Data Engineer with hands-on experience designing and optimizing scalable ETL pipelines, managing large datasets, and building backend systems to enable data-driven decision-making. Proficient in SQL, Python, Java, Spark, and Azure, with expertise in database design, API development, and cloud deployments. Skilled in analyzing and streamlining complex data workflows to deliver actionable insights and improve operational efficiency. A collaborative problem-solver, dedicated to leveraging modern tools and technologies to build robust and scalable data solutions.

EDUCATION

State University of New York at Buffalo , NY	Aug 2022 – May 2024
<i>Master of Science in Engineering Science, Computer Science</i>	
Christ University , Bangalore, India	Aug 2014 – May 2018
<i>Bachelor of Technology, Computer Science</i>	

SKILLS

Programming Languages: Java, Python, HTML, CSS, Javascript
Frameworks & Libraries: Spark, Hadoop, Spring Boot, Docker, Azure
Developer Tools: Git, GitHub, Postman, JIRA
Concepts & Techniques: Agile, API Integration, ETL

WORK EXPERIENCE

Data Engineer Intern	Sep 2024 – Present
JerseyStem	Remote, NY
<ul style="list-style-type: none">Designed and optimized ETL pipeline to transform and integrate large databases from various sources, achieving efficient and reusable data workflows.Integrated Azure Blob Storage for secure, scalable storage and seamless retrieval of structured and unstructured data, ensuring reliable data workflows and robust data management.Developed and automated end-to-end analytics frameworks using Azure Data Factory and Azure Logic Apps, enhancing data orchestration, real-time monitoring, and quality validation across pipelines.	
Software Engineer	Jun 2018 – May 2022
WFX - World Fashion Exchange	Gurugram, India
<ul style="list-style-type: none">Designed and implemented a scalable backend system utilizing Java, Spring Boot, and Hibernate to enhance ERP functionalities such as user authentication, RBAC, and workflow automation specifically for fashion industry needs.Developed and refined RESTful APIs for managing product catalogs, order processing, and inventory, achieving a 30% improvement in response times through optimized queries and effective caching strategies.Optimized MySQL schemas for robust large-scale data handling across orders, inventory, and product lines, ensuring efficient and real-time data access.Enhanced user experience by streamlining order processing and integrating payment gateways and collaborated closely with teams to deliver customized ERP solutions that meet client requirements on time.	

PROJECTS

Robust Data Pipelines for Analytics Databricks, Spark, dbt, Azure
<ul style="list-style-type: none">Designed and implemented a robust data pipeline leveraging Databricks and Apache Spark to process and analyze large-scale data efficiently.Built modular ETL workflows using dbt to ensure reproducible, scalable, and maintainable data transformations.Integrated Azure Data Lake for secure and scalable storage of structured and unstructured data, ensuring seamless data flow and retrieval.Developed an end-to-end analytics framework by configuring Azure Data Factory to orchestrate and monitor pipeline workflows.Automated data quality checks and validations, improving data accuracy and reliability for downstream analytics.Delivered actionable insights through optimized query performance and near real-time data availability.

EXTRA-CURRICULAR

STEM Mentor	Jun 2023 – Aug 2023
University at Buffalo, Engineering Summer Camp	Buffalo, NY
<ul style="list-style-type: none">Led and facilitated activities for the CSE Exploration Camp, mentoring high school and middle school students in Python programming and robotics.Coached students for a competitive bot fight tournament, dedicating over 179 hours to this initiative.	