Contact

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(LinkedIn)

Top Skills

Data Governance

Data Quality

Data Engineering

Languages

English (Professional Working)

Certifications

CompTIA A+

Introduction to C++ Completion
Certificate

Honors-Awards

Winners JU Hackquest 2.0

Harsh Patidar

Data Engineer – R&D at ZS | AWS • Python • SQL • FastAPI •
Docker • MLOps | Advancing Towards AI, ML & Agentic AI Systems
Pune, Maharashtra, India

Summary

I'm Harsh — a Data Engineer focused on building data systems that
are reliable, scalable, and ready for intelligence.

My experience spans data engineering, backend development, and
cloud deployment, combining engineering discipline with a strong
understanding of how data drives modern AI systems. I've designed
automated workflows, optimized pipelines, and deployed model-
integrated APIs using AWS, FastAPI, Docker, and PostgreSQL.

Much of my work involves automating data extraction, structuring
analytical datasets, and deploying containerized ML services.
These experiences have shaped my approach to connecting data
engineering with applied intelligence — creating systems that scale
efficiently and operate seamlessly in production environments.

I'm now expanding my focus into Artificial Intelligence, Machine
Learning, and Generative AI, exploring how these technologies
can integrate into data and cloud architectures to create adaptive,
self-improving systems. My goal is to bridge the gap between data
infrastructure and intelligent automation — building solutions that
evolve, learn, and deliver long-term value.

Core Expertise
• Data Engineering: Python, SQL, ETL, Data Modeling, PostgreSQL
• Cloud Platform: AWS (Textract, Lambda, S3, EC2, ECR,
AppStream)
• Backend Development: FastAPI, Flask, Docker, REST APIs
• AI System Enablement: Model Deployment, Intelligent Workflows,
Scalable Automation

Experience

ZS

Data Engineer

February 2025 - Present (10 months)

Pune, Maharashtra, India

Delivering end-to-end data and AI solutions across R&D and commercial initiatives at ZS. Specializing in scalable architectures, modular workflows, and intelligent data pipelines that enable analytics and experimentation at scale.

R&D Projects – E2E Clinical Planner

• Designed and deployed backend APIs to operationalize machine learning models within analytical workflows.

• Architected and optimized PostgreSQL data models for structured, high-volume research datasets.

• Containerized backend services using Docker and deployed via AWS ECR for consistent multi-environment scalability.

• Implemented pytest-based automated testing, structured logging, and API validation via Swagger/OpenAPI for reliability and observability.

• Collaborated with data scientists and product teams to streamline model integration and align APIs with analytical requirements.

Impact: Delivered a production-grade, containerized API ecosystem that bridged data and model layers accelerating experimentation and improving deployment stability across R&D workflows.

Commercial Project – Forecasting Workflow Automation

• Authored and maintained Spark.SQL scripts to process and validate forecasting datasets.

• Orchestrated Airflow DAGs to automate and monitor data workflows with minimal manual intervention.

• Validated results through AWS Athena and debugged transformations in Databricks for production accuracy.

Impact: Enabled faster experimentation and reliable data delivery across R&D and commercial domains through scalable pipelines, containerized APIs, and automated validation systems.

Accenture

Associate Software Engineer

September 2023 - February 2025 (1 year 6 months)

Pune, Maharashtra, India

Summary:
Part of Accenture's Data Engineering and Governance division, supporting the design and management of enterprise-scale data ecosystems. Focused on data reliability, governance automation, and cloud platform transparency.

Key Contributions:
• Strengthened governance frameworks ensuring accuracy, consistency, and compliance across enterprise data assets.
• Collaborated with engineering teams to validate and monitor data pipelines in AWS and Snowflake environments.
• Implemented secure onboarding, access management, and validation processes for traceable data operations.
• Automated recurring monitoring and reporting workflows using Python and SQL.
• Enhanced data quality controls and audit readiness through structured validation frameworks.

Impact: Reinforced data integrity, compliance, and reliability across enterprise systems — building a foundation for scalable AI and automation initiatives.

Coding Ninjas
Teaching Assistant (Data Structures & Algorithms)
December 2022 - April 2023 (5 months)

• Guided over 240 learners with an average feedback score of 4.9/5.
• Resolved 300+ queries related to algorithmic problem solving and optimization.
• Helped students strengthen fundamentals in C++ and complexity analysis through personalized support.

Impact: Reinforced core algorithmic principles and mentoring skills — strengthening analytical problem-solving

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Education

JECRC University
Bachelor of Technology - BTech, Computer Science · (2019 - 2023)

St. Judes Hr. Sec. School
High School Diploma · (2006 - 2018)