

Shashank Tiwari

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Summary

Highly effective Software Engineer with 1.5 years of experience in designing and optimizing high-performance backend services and MLOps. Eager to contribute expertise to robust, large-scale software solutions and tackle complex technical challenges.

Skills

Languages: Java, Python, C/C++, SQL

Frameworks/Libraries: Spring Boot, Spring Integration, Django, FastAPI, TensorFlow, Scrapy, Next.js

Cloud/DevOps: AWS, Docker, Kubernetes, Kubeflow, Apache Airflow, Jenkins, CI/CD

Tools: PostgreSQL, MySQL, Git, Memcached, Postman, Jupyter Notebook, Grafana

Professional Experience

Deutsche Bank

Software Engineer

Pune, India

July 2024 – Present

- Developed and maintained high-throughput systems within a microservices architecture, communicating via a GraphQL gateway and REST APIs to ensure robust data exchange.
- Engineered a RESTful ETL service orchestrated with Apache Airflow, processing over 10,000 nested alerts daily to reduce data loading times by 40% and improve data accuracy for analytics teams.
- Strengthened core system infrastructure by implementing Memcached and Java's ExecutorService, improving application responsiveness for 5,000+ users and decreasing system outages by 30%.
- Optimized legacy messaging endpoints using Spring Integration adapters and filters, processing over 5,000 financial transactions per day while decreasing message latency by 25%.

AIDASH

Machine Learning Engineer Intern

Bengaluru, India

Jan 2024 – July 2024

- Developed a custom Python SDK that abstracted Kubeflow complexity, providing standardized templates that reduced ML model deployment and iteration time for the data science team by 30%.
- Built and deployed an automated model monitoring module using Airflow, SQL, and Docker, which validated data integrity and model accuracy, cutting manual validation efforts by 40%.
- Streamlined ML infrastructure by containerizing components with Docker and managing deployments on a Kubernetes cluster, improving model reproducibility and resource utilization.

Projects

- Engineered a full-stack, conversational marketing AI with a Next.js frontend, FastAPI backend, and PostgreSQL for persistent chat history, designed to handle 100+ concurrent user sessions with <500ms latency.
- Implemented multi-layered conversational guardrails, including OpenAI's Moderation API and a zero-shot LLM classifier, to ensure system safety and filter off-topic interactions.
- Deployed a scalable web scraper using Scrapy to extract and process over 50,000 product data points from Amazon for competitive analysis, normalizing data for storage in MySQL.
- Designed an automated email alert system that notified users of price drops, leveraging efficient sorting algorithms to improve data retrieval and notification speed by 50%.

Education

Indian Institute of Information Technology Allahabad

Bachelor of Technology in Electronics & Communication Engineering, GPA: 8.85/10.0

Allahabad, India

2020–2024

Competitive Programming & Awards

- Codeforces (Rating: 1549)
- Codechef (Rating: 1982)
- LeetCode
- Interviewbit
- Ranked in the top 33 teams out of 1000 in HINT 5.0.
- Achieved global rank 1636 in Google Kick Start 2022 and global rank 6 in CodeChef Starters 30.