

Shivam Dewangan Full Stack Engineer (Backend)

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📄 SUMMARY

High-impact Full Stack Engineer with a proven track record of architecting cloud-native backends and high-performance data platforms. Expert in scaling distributed systems to handle **10M+ records** with **sub-millisecond latency**. Managing mission-critical **AWS EKS** infrastructure and **S3-based data lakes**.

🧠 SKILLS

Programming Languages — Python, TypeScript, JavaScript, Node.js.

Frameworks & Libraries — FastAPI, Django, Express, Deno, Bun.

Frontend & UI — Next.js, React, React Native, Tailwind CSS, Astro.

Data Engineering — Dagster (Orchestration), ETL/ELT Pipelines, Celery, PostgreSQL, MongoDB.

Cloud & DevOps — AWS, Docker, Kubernetes, Jenkins, GitHub Actions, CI/CD Optimization, FinOps.

AI Stack — GPT, Cursor, Warp, Copilot, Antigravity, Claude.

📁 EXPERIENCE

Full Stack Engineer

Sep 2024 – Apr 2026 | Bangalore, India

Collective Artists Network

Data Architecture & Analytics (Python, Dagster, StarRocks, PostgreSQL)

- Eliminated heavy third-party tool dependencies by architecting a custom, in-house data aggregation platform using Dagster and dlt, seamlessly managing a **3TB+ S3 data lake** with 20GB+ daily ingestion.
- Unlocked real-time dashboards and prevented main DB bottlenecks by migrating complex analytical queries from AWS Athena to **StarRocks**, slashing latency from ~4 minutes to sub-200ms.
- Preserved core application performance by implementing a hybrid **PostgreSQL 18** schema, aggressively offloading heavy data payloads to S3 while keeping relational keys lightweight.

Distributed Systems & Cost Optimization (Kubernetes, FastAPI)

- Slashed third-party API fees and compute **costs by 50%** by engineering intelligent **Kubernetes** pod checkpointing, allowing failed ingestion jobs to resume from the exact point of failure without re-fetching data.
- Ensured zero-downtime **API availability** for internal teams during peak traffic by deploying the data serving layer via **FastAPI** with highly tuned horizontal and vertical K8s auto-scaling.

DevOps & CI/CD Automation (Jenkins, GitHub Actions)

- Accelerated mobile release velocity and reduced QA bug-discovery time by automating the entire Bruised Passports app release cycle (QA, TestFlight, Production), effortlessly handling up to 8 parallel builds daily.
- Significantly reduced monthly **CI/CD cloud expenditure** by architecting a transition from managed build services to **self-hosted GitHub runners** utilizing AWS Reserved Instances.

Software Engineering Intern

Dec 2023 – Aug 2024 | Remote

Terribly Tiny Tales

- Internal Tooling & Analytics:** Eliminated **15+ hours** of manual weekly reporting by building a centralized Next.js/Node.js portal that automatically aggregated Zoho CRM and Google Sheets data for executive revenue tracking.
- Payment Infrastructure:** Integrated Razorpay and Cashfree webhook handlers to automate payment and subscription lifecycles, securely processing seamless transactions for an active user base of **5,000+** TTT Academy students.

🎓 EDUCATION

B.Tech in Computer Science (Full Stack Development)

Sep 2020 – May 2024 | Punjab, India

Lovely Professional University - Graduated with CGPA: 7.4/10