DEV JAYSWAL

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Technical Skills

Languages: Python (Advanced), C++, JavaScript (ES6+), TypeScript, SQL (PostgreSQL/MySQL)

Backend & High Throughput: FastAPI, Django, Asynchronous Programming (Asyncio), Apache Kafka, Redis, Celery, Node.js

DevOps & Cloud: Docker, Kubernetes (K8s), AWS (EC2, S3, EKS), CI/CD (GitHub Actions), Nginx, Terraform, Linux SysAdmin

Full Stack & Tools: React.js, Next.js, HTML5/CSS3, RESTful Microservices, gRPC, JWT, Git, Postman, System Design

AI/ML Integration: PyTorch, LLM Orchestration, LangChain, Vector Databases (Pinecone/Milvus), NumPy, Pandas

Experience

FoodNEST(S) — 07/2024 – 03/2025

Software Engineering Intern (Full Stack/DevOps Focus) — *Lucknow, U.P.*

- Architected an end-to-end **Event-Driven PWA** using Node.js and Python microservices, leveraging **Redis Pub/Sub** for real-time order tracking, boosting operational efficiency by 25%.
- Engineered a high-throughput Chatbot API gateway capable of handling 500+ concurrent users by implementing **Asyncio** and horizontal scaling on **AWS EC2**.
- Automated deployment workflows using **Docker** and **GitHub Actions**, reducing deployment downtime by 40% and ensuring 99.9% uptime through **Nginx** load balancing.
- Optimized data retrieval by 50% by implementing a multi-layer caching strategy and refactoring legacy SQL queries into optimized **PostgreSQL** schemas.

Kisaanpe.com — 02/2024 – 07/2024

Web Developer & Systems Associate — *Gwalior, M.P.*

- Developed a secure onboarding platform with **JWT authentication** and end-to-end encrypted data pipelines for 200+ active users.
- Managed distributed Linux environments on **DigitalOcean**, configuring firewalls and TCP/IP optimization, which enhanced server reliability by 35%.
- Integrated automated QR-based data syncing between frontend and high-availability backend endpoints, reducing user onboarding time by 60%.

Projects

MITS-SATS - High-Throughput Scheduling System | Python (FastAPI), Kafka, Docker — 12/2025

- Developed a distributed scheduling engine using **FastAPI** and **Google OR-Tools**, capable of generating conflict-free timetables across 100+ constraints in parallel.
- Integrated **Apache Kafka** for asynchronous task distribution, allowing the system to handle multiple heavy computation requests without blocking the event loop.
- Implemented **Asynchronous Programming (Async/Await)** for I/O bound operations, achieving a 3x increase in request throughput compared to synchronous versions.
- Containerized the entire stack (FastAPI, Redis, Kafka) using **Docker Compose**, facilitating seamless end-to-end local development and cloud deployment.

SocialEnv - Full-Stack Networking Engine | React, TypeScript, Node.js, AWS — 10/2024

- Designed a scalable social networking platform with a decoupled frontend (React/Vite) and backend architecture, ensuring high modularity and maintainability.
- Engineered a custom media processing pipeline for post uploads, utilizing **AWS S3** for persistent storage and **CloudFront** for low-latency content delivery.
- Maintained state consistency across the application using **Redux Toolkit** and implemented robust error handling with **TypeScript** interfaces.

Education

Madhav Institute of Technology and Science, Gwalior — 10/2022 – 07/2026

B.Tech in Artificial Intelligence and Machine Learning (CGPA: 8.1) — *Gwalior, M.P.*

Achievements

Competitive Programming: Rated 1650 on LeetCode — Solved 300+ DSA problems (focus on Graph Theory & Dynamic Programming).

Hackathons: Amazon ML Challenge 2025 (AIR 23) - Built an optimized resource allocation model under high-pressure constraints.

Cloud Mastery: Hands-on experience with VPC, IAM roles, and K8s cluster management for scalable Python apps.