

# Harsh Srivastava

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## Education

Vellore Institute of Technology  
B.Tech in Computer Science - 8.3 GPA

Bhopal, MP  
Sept 2023 – present

## Experience

Full Stack Developer Intern  
BUILD AI ENGINE

Bangalore, India  
Mar 2025 – July 2025

- Implemented scalable **AWS infrastructure (EC2, S3, RDS, Lambda)** supporting **2,000+** users with **99.9%** uptime.
- Automated **CI/CD pipelines** with **AWS CodePipeline** and **GitHub Actions**, reducing deployment time by **70%**.
- Containerized **microservices** with **Docker** and deployed to **AWS EKS**, enabling horizontal scaling during peak load periods.

SDE Intern  
MyTripGoals

Noida, UP  
Sept 2024 – Feb 2025

- Built **travel dashboard** using **Next.js** with **GraphQL API**, serving **5,000+** registered users daily
- Built **real-time chat system** with **Socket.IO** and **Redis pub/sub**, reducing P95 latency by **15% at peak**.
- Automated **admin workflows** using **React Hooks**, **Zustand**, boosting efficiency **20%** and cutting errors.

## Projects

DeployX: Multi-Cloud Deployment Platform with MLOps

Built deployment pipeline with **FastAPI** and **Celery** supporting web apps and ML models with **Docker containerization**

Integrated **MLflow** registry with **Prometheus** monitoring, automated rollback on drift detection using **Evidently AI**

Automated multi-cloud deployments to **AWS SageMaker** and **GCP Vertex AI** using **Terraform** with **Istio** for canaries

DayDex: Multi-Market Pattern Detection and Alert Platform

Built platform with **React**, **FastAPI** detecting **10+ candlestick patterns** and US-India market correlations with **TA-Lib**

Implemented **WebSocket alerts** with **Celery workers** for cross-market signals predicting NSE trends with **68% accuracy**

Integrated **Yahoo Finance API** with **Redis caching** and **pandas**, backtested showing 12% improved entry timing

## Achievements and Certifications

**5× Hackathon Winner:** CodeVerse, HackByte, Cisco Codeathon, Hack4Health, MP Police Cyber Security

**Competitive Programming:** Solved 850+ problems on LeetCode with 200-day streak

**Google Summer of Code 2024:** Top 2% of GSoC Contributors.

**AWS Community Leader:** Trained 200+ students through 15 workshops, helped 12 students achieve AWS certifications

**Freelance Projects:** Delivered 6+ production applications (SDPL, Plotify, Discovery-Drift, Flatpur)

**AWS Certified Solutions Architect – Associate** (09/2024)

## Publications

The MERN Stack Alchemist Book — Author

May 2025

Harsh Srivastava

Leveraging Kubernetes for LLM Deployment (IJFMR)

Jan 2025

Harsh Srivastava, Shikhar Srivastava, Palak Singh, Ayushi Jaimani

## Skills

**Languages:** Java, Python, TypeScript, JavaScript

**Technologies:** Spring Boot, Node.js, React.js, Express.js, Next.js, FastAPI

**Database:** PostgreSQL, MongoDB, MySQL, Supabase

**DevOps:** AWS, Azure, Docker, Kubernetes, Terraform, CI/CD Pipelines, Jenkins

**Tools & Version Control:** Git, GitHub Actions, TensorFlow, Amazon SageMaker, GraphQL

**System Design & Scalability:** Load Balancing, Caching, CDN, Event-Driven Architecture, Multi-Tenancy