# Harsh Srivastava

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## Education

**Vellore Institute of Technology** *Bhopal, MP*
*B.Tech in Computer Science - 8.3 GPA* *Sept 2023 – present*

## Experience

**Full Stack Developer Intern** *Bangalore, India*
*BUILD AI ENGINE* *Mar 2025 – July 2025*
- Architected **Node.js/TypeScript microservices** with **Kafka**, serving **10M+ requests/day** at **99.9%** uptime.
- Built **GraphQL APIs** with **Redis caching** and **query optimization**, reducing response time by **75%** under load.
- Deployed apps with **Docker/Kubernetes on AWS EKS**, automating **CI/CD** and cutting deployment time by **70%**.

**SDE Intern** *Noida, UP*
*MyTripGoals* *Sept 2024 – Feb 2025*
- Built **travel booking dashboard** in **React and JavaScript** with **Zustand**, improving user experience by **40%**.
- Developed **reusable UI components** with **Tailwind CSS** and **custom hooks**, accelerating feature development.
- Built **real-time chat system** with **Socket.IO and Redis pub/sub**, reducing P95 latency by **15%**.

## Projects

**DeployX:** Automated Multi-Cloud Deployment Platform for Apps and ML Models ⧉
- Built **auto-containerization platform** with **FastAPI/Celery**, converting code to **production Docker images** instantly.
- Orchestrated **zero-config ML pipeline** with **dynamic resource allocation**, eliminating manual deployment overhead.
- Enabled multi-cloud deployment to **AWS and GCP** using **Terraform**, with **Grafana monitoring** tracking **15+ KPIs**.

**SafeSurf:** Real-Time Mobile Content Moderation System (Government-Funded) ⧉
- Built **Java/Spring Boot** system detecting NSFW images and profane text across mobile apps in **real-time**.
- Integrated **TensorFlow Lite** for on-device image classification and **NLP models** for chat moderation with **95%+ accuracy**.
- Deployed with **Redis caching** and **Kafka streaming**, handling **10K+ events/sec** after securing government grant funding.

## Achievements and Certifications

**5× Hackathon Winner:** CodeVerse, HackByte, Cisco Codeathon, Hack4Health, MP Police Cyber Security
**Competitive Programming:** Solved 850+ problems on LeetCode (Rating: 1700) 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, JavaScript, TypeScript, SQL
**Backend:** Node.js, Spring Boot, FastAPI, GraphQL, REST APIs, Microservices
**Frontend:** React.js, Next.js, Tailwind CSS, Redux, Zustand
**Databases & Caching:** PostgreSQL, MongoDB, Redis
**Cloud & DevOps:** AWS (EC2, S3, EKS), Docker, Kubernetes, Terraform, CI/CD
**Tools & Frameworks:** Git, Kafka, TensorFlow, Socket.IO, Celery, JMeter, Postman
**System Design:** Distributed Systems, Caching, Load Balancing, Event-Driven Architecture, API Design