Shruti Vishwakarma

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SUMMARY

Software Engineer with hands-on experience in **Java (Spring Boot)** and **Python (Flask)**, building and deploying REST APIs with MySQL, Docker and AWS. Built production payment APIs as an intern at Toss Solutions, and have since developed three deployed projects, including **RAG and LLM-based** applications. Available to join immediately.

TECHNICAL SKILLS

Languages: Java, Python, SQL, JavaScript, C++
Backend & Testing: Spring Boot, Spring Data JPA, Flask, REST APIs, JWT Authentication, JUnit, pytest
Database, Cloud & Tools: MySQL, AWS EC2, Docker, Docker Compose, Git, Linux, Gunicorn
AI/ML & Frontend: TensorFlow, Scikit-learn, MediaPipe, RAG, FAISS, LLM APIs, React.js
Core Concepts: Data Structures and Algorithms, OOP, DBMS, Operating Systems, Computer Networks

EXPERIENCE

Toss Solutions Jabalpur, Madhya Pradesh
Software Developer Intern *March 2025 – May 2025*

- Built **17 REST API endpoints in Flask** across 6 domains (auth, profiles, cart, orders, transactions and payments) for EnsureKar, an accounting and tax-compliance platform serving **25,000+ clients**, deployed to production on **AWS EC2**.
- Integrated **CCAvenue** across a 4-stage payment flow with **AES-128-CBC encryption** for card, UPI and net-banking, marking orders paid only after confirmed success to prevent false confirmations on failed or abandoned payments.

PROJECTS

Kaksha – Satellite Collision Screening *October 2026*
Java, Spring Boot, Spring Data JPA, MySQL, Docker, AWS EC2 | kakshaorbi.duckdns.org

- Reduced screening time for 75 Indian satellites against 16,760 objects from an estimated **2.5 hours to 74 seconds** by computing each orbit once with SGP4 and filtering impossible pairs by altitude.
- Accelerated on-demand screening of a single satellite from **19 seconds to 0.77 seconds** with zero missed close approaches, by adding an altitude filter that skips 94% of impossible object pairs.
- Delivered a **Spring Boot REST API** (Spring Data JPA, MySQL) with **36 ms median** and 65 ms p95 response time, backed by **72 JUnit tests** and deployed on AWS EC2 with Docker Compose and HTTPS.

AI Interview Practice Platform *July 2026*
Python, Flask, MySQL, FAISS, LLM APIs, RAG | skillmock.onrender.com

- Built a **RAG pipeline** that generates tailored interview questions from a candidate's resume, cutting LLM context by **58%** with no loss in retrieval recall (**96%**) by chunking per accomplishment instead of per section, with FAISS retrieval.
- Designed an **LLM-based resume-bullet scorer** that separates strong bullets from generic ones (average **0.84 vs 0.18** across 36 labeled examples) by grading four signals: numbers, named tech, action and scope.
- Hardened the LLM scorer against **prompt injection**, cutting the worst-case score of 12 attack payloads from **1.00 to 0.35** by withholding credit from lines flagged as instructions.

Sign Language Recognition Platform *November 2025*
Python, Flask, TensorFlow, MediaPipe, MySQL, React, Docker | https://80.225.204.112.nip.io

- Built a real-time sign-language recognition tool that gives learners instant feedback, reaching about **83% accuracy across 290 sign classes**, by training a **Bidirectional LSTM** on 5,700+ hand-landmark sequences.
- Protected user privacy and kept the backend lightweight by running MediaPipe in the browser and sending only 3,780 landmark values per gesture (30 frames x 126) instead of raw video, normalized with scikit-learn's RobustScaler.
- Secured the **Flask REST API** with **JWT authentication** and salted password hashing over MySQL, verified it with **48 pytest tests**, and deployed it live with Gunicorn, Docker and HTTPS.

EDUCATION

Gyan Ganga College of Technology Jabalpur, Madhya Pradesh
Bachelor of Technology in Computer Science and Engineering – CGPA: 7.86/10 *November 2021 – May 2025*

CERTIFICATIONS & ACHIEVEMENTS

- Machine Learning I – Columbia University, online course (August 2025)
- Solved **200+ Data Structures and Algorithms problems** on LeetCode.
- Led 10-day Python workshops for **100+ students**, from basics to building a small project.