

AKSHAT TRIVEDI

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SOFTWARE ENGINEERING INTERN • Distributed Systems | Algorithms | Cloud

Tech-savvy problem-solver with **strong CS fundamentals** and hands-on experience building distributed real-time systems, embedded networks, cloud-native pipelines, and intelligent analytics tools. **Proficient in Java, Python, C++, Node.js, AWS, PostgreSQL, Docker, WebSocket, and object-oriented design.** Delivers high-impact solutions with performance-focused metrics.

EDUCATION

- Pranveer Singh Institute of Technology, Kanpur, India** 2022 – 2026
Bachelor of Technology (B. Tech) in Information Technology CGPA: 8.1 (Till 5th Semester)

EXPERIENCE

- The Vibe Coder (Startup) — Systems Development Intern / Remote / Mar 2025 – Present**
 - Designed and implemented **backend microservices (Node.js, FastAPI)** supporting real-time workflows and AI-powered developer matchmaking.
 - Engineered **WebSocket-based updates and API integrations**, reducing user feedback latency by **35%**.
 - Automated **CI/CD pipelines with Docker & GitHub Actions** for seamless feature releases.
 - Coordinated feature design with product and frontend teams, delivering complex matching algorithms on schedule.
- IEEE PSIT Student Branch – Chairperson and Research Associate / Kanpur / Jul 2023 - Present**
 - Led development of patent-pending deepfake detector; deployed parallel inference pipelines **reducing latency by 40%**.
 - Organized 10+ full-stack and cloud workshops; **mentored 20+ students** in backend and distributed systems.

TECHNICAL PROJECTS

- ❖ **SmartRetail360 — AI-Driven Supply Chain Platform System** Mar 2025 – Jul 2025
Tech: Node.js, TypeScript, Python, PostgreSQL, WebSocket, React, AWS
 - Architected real-time distributed orchestration system managing inventory, autonomous delivery, and **analytics for 200+ SKUs**.
 - Implemented **LSTM/ARIMA forecasting (97.2% accuracy)**; improved route **SLA by 25%** and delivery cost by **30% via dynamic Dijkstra scheduling**.
 - Built WebSocket dashboards (**<100 ms update latency**), optimized microservice scaling and DevOps workflows.
- ❖ **Hybrid ASCII Deepfake Detection System** Jan 2024 – Apr 2024
Tech: Python, PyTorch, FastAPI, React, EfficientNet, InceptionResNet
 - Developed a patented **dual-path deepfake detector** with ASCII compression **achieving 96.3% accuracy** and **65% compute reduction**.
 - Engineered attention-fusion + BiLSTM backend with 0.42 s/frame inference and 99.7% uptime using Docker-based deployment.
- ❖ **Smart Grid Monitoring System** July 2024 – Sept 2024
Tech: C, 8051 microcontrollers, UART, ADC
 - Built **master-slave embedded network for real-time monitoring** of voltage, pressure, and temperature.
 - Implemented **low-latency UART communication and actuator** response for **grid control and lighting automation**.
- ❖ **Facebook Social Analyzer** Apr 2025 – Jun 2025
Tech: Python, Streamlit, Facebook API, Gemini AI, SQLite/PostgreSQL
 - Built **AI-powered analytics dashboard** with natural-language query via **Google Gemini**.
 - Auto-detecting **data schemas enabled 20% faster onboarding**; backend **stored 10K+ ads** with dynamic visuals.

CERTIFICATIONS

- Salesforce AI Trailblazer Champion **Salesforce Trailhead** (April 2025 – May 2025)
- Microsoft “Python for Beginners” **Microsoft** (Jun 2024 – Sept 2024)
- AWS Certified Cloud Practitioner **Amazon Web Services** (Dec 2024 – Jan 2025)
- Certified Java Developer – Expert **CJDE™** (Feb 2025 – Mar 2025)

TECHNICAL SKILLS AND INTERESTS

- Languages:** Python · Java · C++ · TypeScript · JavaScript · SQL · C
- Backend/Infra:** Node.js · FastAPI · Flask · WebSocket · Docker · AWS (EC2, Lambda, S3)
- Databases:** PostgreSQL · SQLite · MongoDB
- Tools:** Linux · GitHub Actions · Jenkins · CI/CD
- Concepts:** Distributed Systems · Multi-tier Architecture · Real-time Messaging · Embedded Systems · System Design · OOP · DSA

LEADERSHIP & ADDITIONAL HIGHLIGHTS

- Solved **600+ questions** across various online coding judges.
- Competitive Coding handles: **5 Star in PS @ Hackerrank Profile: hackerrank.com/profile/2201640130012_IT**
Solved 250+ Problems @ Leetcode Profile: leetcode.com/u/cannister2k22/
- Active contributor on **GitHub (Hugging Face, TensorFlow)**, maintaining ML/data utility repositories.
- IEEE Chair:** Organized 10+ AI/ML/IoT workshops; led full-stack teams and promoted open-source contributions.
- SPH 2024:** Led a 4-person team delivering scalable full-stack solution.