

Muskan Kumari

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EDUCATION

Thapar Institute of Engineering and Technology
B.E. in Computer Engineering

Patiala, Punjab
Sep 2022 – June 2026

EXPERIENCE

Rivet Technologies Pvt. Ltd. (Atlanta, USA)
Software Engineer Intern

Jan 2026 – June 2026
Bangalore, India

- One of **5 engineers on the founding engineering team**; built and shipped production features across messaging, workflow automation, treasury, and transaction-management modules for a fintech collaboration platform using **React**, **Next.js**, **TypeScript**, and **REST APIs**.
- Owned end-to-end development of core systems for team collaboration, workflow orchestration, financial operations, and account management, taking features from design through production deployment.
- Used **Socket.IO** to build real-time messaging and notification features, and worked with Git, Figma, and ClickUp in an agile, cross-functional workflow with product and design.

Rivet Technologies Pvt. Ltd. (Atlanta, USA)
Software Engineer Intern

June 2025 – July 2025
Gurugram, India

- Built **20+ reusable React/Next.js components** and financial workflow features, improving page performance and UI consistency across the product.
- Shipped MVP features across banking, payments, and treasury modules while collaborating with backend and design teams in an agile environment.

PROJECTS

RideHive: Full-Stack Carpooling Platform | *Next.js, Node.js, MongoDB, WebSockets*

- Built and deployed a full-stack ride-sharing platform for **500+ students**, with real-time trip tracking and automated WhatsApp notifications via the Baileys WebSocket API, cutting commute costs by **30%**.
- Designed a cost-splitting algorithm and scalable backend architecture that reduced manual billing errors by **25%** and improved transparency across shared rides.

ArtFinder: RAG-based Market Intelligence Platform | *LangChain, Python, OpenAI, FAISS, Streamlit*

- Built a retrieval-augmented generation pipeline using OpenAI embeddings and FAISS vector search, cutting manual competitor research time by **80%** and generating market strategy reports in under **3 seconds**.
- Cleaned and processed a 43K-row e-commerce dataset into 17K high-quality vectors, improving retrieval relevance and cutting hallucinated outputs by over **90%**.

Smash-X: AI-Powered Badminton Analytics System | *PyTorch, OpenCV, YOLOv5, MediaPipe, Flask, PostgreSQL*

- Built an end-to-end computer vision pipeline combining **YOLOv5 + ByteTrack** and **MediaPipe** for real-time player motion tracking, exercise analysis, and drill heatmaps.
- Integrated Google Gemini to auto-generate narrative coaching reports from match data, cutting manual post-match analysis time by **80%**.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Java, C/C++, SQL

Core CS: Data Structures & Algorithms, OOP, DBMS, Operating Systems, Computer Networks, System Design

Frameworks & Backend: React, Next.js, Node.js, REST APIs, GraphQL, Socket.IO, Microservices, JWT Authentication, OAuth 2.0

Databases & Caching: PostgreSQL, MySQL, MongoDB, Redis

Cloud & DevOps: Git, Docker, Kubernetes, AWS, GCP, Vercel

AI/ML: PyTorch, TensorFlow, scikit-learn, OpenCV, Hugging Face, LangChain, FAISS

Tools: VS Code, Postman, npm, Prettier, Figma

POSITIONS OF RESPONSIBILITY

Student Placement Representative | Placement Cell, TIET

July 2025 – Present

- Coordinated with **50+ recruiters** and **1000+ students** across resume shortlisting and interview logistics, cutting information gaps by **40%** and improving student preparedness by **25%**.

Joint Secretary | Litsoc, TIET

Mar 2023 – Mar 2025

- Coordinated logistics and cross-team execution for flagship events with **500+ attendees**, achieving **98%** positive feedback.

ACHIEVEMENTS

SatHack Hackathon (Conducted by NVIDIA) | *1st Position, Edge AI Track*

Nov 2024

Level SuperMind Hackathon | *Finalist, Gen AI Track*

Jan 2025