Siddharth Mishra

Email: siddh907729@gmail.com Mobile: **+91 6206420130**
LinkedIn: LeetCode: </>

EDUCATION

- **Manipal University Jaipur** Jaipur, India
  - *BTech in Information Technology; Expected Graduation: May 2026 — CGPA: 8.51* 2022 - Present
- **CBSE Class XII** Patna
  - *Senior Secondary Education; Score: 79.8%* 2022
- **CBSE Class X** Patna
  - *Secondary Education; Score: 86%* 2020

SKILLS SUMMARY

- **Programming Languages:** C++, JavaScript, TypeScript, Python, Golang
- **Web Development:** React.js, Next.js, Node.js, Express.js, TanStack Query, Prisma ORM
- **Database Management:** PostgreSQL, MySQL, MongoDB
- **Version Control:** Git, GitHub
- **Tools & Libraries:** Docker, AWS (EC2, RDS, Lambda, VPC)
- **Machine Learning:** NumPy,Pandas,Matplotlib,Scikit-Learn
- **Core Skills:** Data Structures & Algorithms, OOP, Operating Systems

PROJECTS

- **AI-Powered Posture & Fitness Feedback System** (Next.js, Python, MediaPipe, OpenCV)
  - Built a full-stack AI application for real-time posture and fitness feedback using MediaPipe and OpenCV
  - Achieved 92% squat form accuracy via custom state transition logic benchmarked against expert trainers
  - Developed a responsive Next.js + TypeScript frontend with Tailwind CSS and integrated Clerk authentication
  - Connected frontend to a Python FastAPI backend that processes exercise videos and returns posture overlays
  - Generated detailed PDF workout reports with form correction insights
- **SessionSense - Smart Video Focus Tracker (In Progress)** (Next.js, TypeScript, Tailwind CSS,Redis,Resend,Clerk)
  - Designed a video engagement tracker to monitor user focus during educational content playback
  - Implemented Redis-based real-time logging of user interactions like play, pause, seek, and rewinds
  - Engineered backend logic with session enforcement to ensure one-tab usage per session
  - Built email summaries using Resend to provide session reports with focused intervals
  - Tracking and computing unique continuous watch intervals to analyze authentic engagement over repeated views
- **Banking Microservices System** (Node.js,Express,TypeScript,Kafka, Postgres,Redis, Docker)
  - Designed and implemented a scalable banking system using microservices (Auth, Account, Gateway) in TypeScript
  - Integrated Kafka for async communication and Saga Pattern to ensure transactional consistency
  - Used JWT and seession based control for secure authentication and centralized access control via a custom API Gateway
  - Containerized services with Docker Compose including PostgreSQL, Kafka UI, Redis and testing using Jest.
  - Followed modular architecture with Zod validation and clear abstraction layers for robust request handling
- **Real-Time Log Monitoring with Kafka-ELK Stack** (Node.js, Kafka, Docker, Elasticsearch, Kibana)
  - Built six Node.js microservices (Auth, Order, Inventory, etc.) generating 300+ logs/min with rich metadata (status code, user ID, country)
  - Published logs to Apache Kafka, enabling scalable, decoupled ingestion using dedicated log topics
  - Applied Logstash filters for parsing, enrichment, and selective tagging; indexed structured logs into Elasticsearch
  - Created dynamic Kibana dashboards for real-time system observability and anomaly detection
  - Containerized full pipeline using Docker Compose with dependency management via ‘wait-for-it.sh‘