SWAPNIL SHAW

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PROFESSIONAL SUMMARY

Motivated Computer Science undergraduate and **Smart India Hackathon 2025 Finalist** with strong hands-on experience in **full-stack development, mobile application engineering, and AI-driven systems**. Proficient in **Java, Python, Flutter, and Spring Boot**, with cloud expertise across **Firebase, AWS, and GCP**. Proven track record of building **scalable, real-time solutions** for **healthcare, emergency response, and AI-powered surveillance**, including a **patent-pending intelligent video analytics system**. Demonstrates strong **problem-solving skills, rapid prototyping ability, and end-to-end system design expertise**.

Education

Narula Institute of Technology, MAKAUT, India	**2023 - 2027**

- Branch: CSE | CGPA: **8**

Calcutta Public School, India	**2020 - 2021**

- *ISC (Class XII), Aggregate: 83%*

Calcutta Public School, India	**2022 - 2023**

- *ICSE (Class X), Aggregate: 87%*

Skills

Java | Python | Dart | C++ | C | Flutter | SpringBoot | AIML | Firebase | AWS | GCP | SAP | MongoDB | MySQL | Git | GitHub

Experience

**AI Intern	Infosys Springboard**	**(Nov 2025 – Jan 2026)**

- Developing TraceFinder, an ML model to identify scanner sources from image artifacts for forensic applications.
- Working on data preprocessing, feature extraction, and CNN-based classification for accurate source detection.

Projects

Prescripto	**(Apr 2025 - Present)**

- End-to-end digital healthcare platform integrating appointments, pharmacy delivery, emergency services, and medical records.
- Features real-time ambulance booking, blood supply coordination, AI-driven health insights, and insurance integration.
- Built with **Spring Boot**, **NestJS**, and **Flutter**, designed for scalable microservices architecture.

RapidResQ – Emergency Response App	**(Jan 2025 - Feb 2025)**

- Developed an emergency app with one-tap SOS via voice command, offline GPS support, real-time Firebase alerts, and automated video/audio recording during critical events.
- Implemented fall detection using device sensors, ensured battery-efficient background operations, secure data storage, and a user-friendly interface optimized for high-stress use cases.

GeoMask – Stealth GPS Spoofer	**(Sept 2025 - Oct 2025)**

- Built a **production-grade Flutter application** enabling manual and automated GPS spoofing on **non-rooted Android devices**, with offline support and seamless background execution.
- Designed a **privacy-first auto-spoofing engine** that dynamically generates unique location coordinates at user-defined intervals to protect real location data.

AI CCTV Surveillance and Alert System	**(Mar 2025 - Present)**

- Developed a **patent-pending real-time video analytics system** for detecting anomalies, intrusions, and safety violations using advanced computer vision models.
- Enabled **low-latency, edge-optimized processing** of multiple video feeds with instant alert delivery via **mobile and web dashboards** for security teams.

SyncBeats – Real-Time Group Music Streaming App	**(Mar 2025 - May 2025)**

- Built a real-time group music streaming app enabling synchronized playback across devices with near-zero latency using WebSockets and timestamp synchronization.
- Implemented secure authentication, unique meeting codes, live chat, and adaptive buffering using Flutter, Firebase, and Cloud Functions.

Certifications

- Oracle Cloud Infrastructure 2025 Certified Multicloud Architect – Professional	(Issued by Oracle)
- Flutter development	(Issued by Infosys Springboard)
- Android App Development	(Issued by MTA Learning Pvt. Ltd.)
- Cybersecurity	(Issued by IALSD)
- Artificial intelligence and Machine learning	(Issued by Infosys Springboard)

Extracurricular Achievements

- **Built and deployed multiple real-world production-grade applications (healthcare, emergency response, privacy, AI surveillance).**
- **Patent** in **intelligent video analytics system** with real-time multi-feed processing and edge optimization.
- **National-level hackathon experience as a Smart India Hackathon (SIH) 2025 Finalist**, delivering end-to-end solutions under strict timelines.