Rishabh Dubey

Software Engineer

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PROFESSIONAL SUMMARY

Software Engineer — B.Tech Computer Science (2026) with end-to-end product experience across Python backend, real-time computer vision and network security tooling. Built an AI exam-monitoring system (0.92 mAP, under 15 ms per frame) as capstone team lead and first-authored a peer-reviewed paper on it; founder of Buildatrons HQ, a 200+ member community.

TECHNICAL SKILLS

Languages:	Python, JavaScript, SQL, C++
Frameworks & Libraries:	PyTorch, OpenCV, YOLOv8, Flask, React, Node.js, Express
Databases & Tools:	PostgreSQL, Supabase, SQLite, Git, Docker, REST APIs, Socket.IO

PROJECTS

AI-Powered CCTV Exam Monitoring System — Capstone, Team Lead of 4 **Jul–Dec 2025**

Python, YOLOv8, OpenCV, DeepStream, TensorRT, Triton, Flask, React, DeepFace, Docker
github.com/Mango1504/AI-Surveillance

- Achieved 0.92 mAP at IoU 0.5 with under 15 ms per frame at 30 FPS by fine-tuning YOLOv8 and orchestrating a hardware-aware pipeline (DeepStream, TensorRT FP16/INT8, Triton) across edge and CPU-only modes.
- Validated identity at 98.2% session-scoped biometric accuracy (DeepFace) and shipped offline VLM incident reports with an AES-256 encrypted evidence cache.
- Led a 4-person team and delivered the system with multi-camera tracking (ByteTrack/DeepSORT), Kafka/MQTT event streaming and Docker + GitHub Actions CI.

NetShield — Network Scanning Dashboard **Mar–Apr 2026**

JavaScript, Node.js, Express, Socket.IO, Nmap, SQLite, Docker
github.com/Mango1504/Network-Scanner

- Built a network auditing dashboard wrapping Nmap in a React frontend and an Express/WebSocket backend, turning scans into queued jobs with live progress and searchable history.
- Prevented scan overload with asynchronous scan queuing and live progress streaming over Socket.IO.
- Parsed Nmap XML into a searchable SQLite history of protocol, service, version and OS details; shipped the full stack in a single Docker container with a live demo.

Boop — QR Pet Identity and Reconnection Platform **Sep–Oct 2026**

React, Supabase, PostgreSQL, QRCode, Render
github.com/Mango1504/reunite

- Built a privacy-preserving QR pet-identity platform that reconnects finders and owners without exposing owner contact details.
- Secured the platform with Supabase authentication, PostgreSQL row-level security, controlled photo storage and owner-inbox messaging, capping finder messages at 10 per pet per hour, with account deletion for pet records and photos.
- Shipped with tests, a launch checklist and a security-hardening checklist; deployed on Render.

EDUCATION

Lovely Professional University, Jalandhar, Punjab **Aug 2022 – Jun 2026**

B.Tech, Computer Science and Engineering | CGPA: 7.11

LEADERSHIP & COMMUNITY

Buildatrons HQ — Founder

- Founded a 200+ member multidisciplinary community for developers, designers, marketers and founders; coordinate project teams and run weekly coworking and demo sessions.

RESEARCH & CERTIFICATIONS

- **First author,** “AI-Powered CCTV Surveillance for Intelligent Examination Monitoring and Automated Alert System Using YOLOv8,” IJSET, Vol. 14, Issue 4, ICAMC 2026 Special Issue (DOI: 10.5281/zenodo.21716279). Presented at ICAMC 2026 and ICSAS 2026.
- **4th of 400+** in a college Capture The Flag (CTF) competition: vulnerability exploitation and network forensics.
- **Certifications:** Ethical Hacking Essentials (EHE), EC-Council, Jul–Nov 2025; Cloud Computing, NPTEL (IIT), Jul–Oct 2024; IBM Generative AI Apps with Python, Deep Learning with Keras, LLM Architecture, Feb 2026.