Chittransh Sharma

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EDUCATION

BML Munjal University   Gurugram, Haryana
Bachelor of Technology in Computer Science & Engineering   *Aug. 2025 – May 2029*

Sahoday Senior Secondary School   New Delhi, Delhi
High School Diploma in Engineering (PCM + CS)   *2011 – 2025*

EXPERIENCE

Freelance Developer   New Delhi, India
Self-Employed   *Jan. 2024 – Present*
- Built IoT and embedded prototypes using ESP32, sensors, and real-time data workflows.
- Designed MQTT-based systems using Raspberry Pi for telemetry and remote monitoring.
- Developed automation tools, debugging utilities, and microcontroller firmware.
- Collaborated with clients to gather requirements, iterate on prototypes, and deliver production-ready builds.

Hackathon Engineer — Project LYNX   Gurugram, Haryana
BMU TechStorm Hackathon   *2025*
- Developed an AI + IoT maritime navigation prototype integrating GPS and environmental sensors.
- Implemented embedded logic and ML-driven insights for hazard detection.
- Presented a working navigation prototype under strict deadlines.

PROJECTS

AURA — IoT Wellness Monitoring System | *ESP32, Sensors, MQTT, Raspberry Pi, Python*   2025
- Built a privacy-first system detecting falls, instability, and hazardous gases.
- Developed ESP32 firmware with sensor fusion, debouncing, and edge inference.
- Implemented MQTT-based real-time alerts and monitoring dashboards.

LYNX — AI + IoT Navigation System | *GPS, Sensors, Embedded Logic, ML-assisted Insights*   2025
- Created a prototype navigation assistant integrating GPS and environmental sensing.
- Implemented ML-driven decision logic for route evaluation and hazard detection.

Azure Computer Vision Utilities | *Azure Cognitive Services, Python*   2024
- Built CV automation utilities and inference pipelines using Azure Cognitive Services.

TECHNICAL SKILLS

Languages: Python, C++, JavaScript, HTML/CSS
Frameworks & Tools: MQTT, Flask (basic), Node.js (basic), Azure ML Studio, Azure CV APIs
Embedded Systems: ESP32, ESP-IDF, Arduino, Sensors, GPIO, UART, I2C, SPI
Networking & Protocols: MQTT, REST APIs, WebSockets, TCP/IP
Cloud Platforms: Microsoft Azure, AWS (S3, VPC)
ML / CV: NumPy, Pandas, Scikit-learn, Azure CV APIs
Dev Tools: Git, Linux, Raspberry Pi, VS Code, Docker
Other: Figma, Flutter

CERTIFICATIONS

Microsoft Azure — Machine Learning Pipelines (2025)
Microsoft Azure — Computer Vision Applications (2025)
Microsoft Azure — REST API Using NodeJS Serverless (2025)
AWS — Virtual Private Cloud (VPC) (2025)
ISRO (IIRS) — Remote Sensing & Digital Image Analysis (2025)
Neo4j — Certified Professional (2025)
Deloitte — Technology Job Simulation (2025)
ICT360 — National Design Championship (2nd Runner-Up, Python)