

Nirmal Rajkumar

+91-8088766277 | nirmalrajkumariofficial@gmail.com | nirmal.builditmuji.club | github.com/nrk018

EDUCATION

- Manipal University** Jaipur, India
 - Bachelor of Technology - Data Science; GPA: 7.81* *July 2023 – June 2027*
 - Relevant Coursework:** Operating Systems, Data Structures, Analysis Of Algorithms, Machine Learning (ML), Deep Learning (DL), Generative AI (GenAI), DBMS.

SKILLS SUMMARY

- Languages/Cloud:** Bash, SQL, C++, Java, Python, JavaScript, TypeScript, AWS, GCP, Supabase
- AI & Computer Vision:** OpenCV, NLTK, Intel OpenVino, MTCNN, ResNet50, TensorFlow, YOLOv11
- Frameworks & Tools:** Git, Docker, Kubernetes, MongoDB, Express, Flask, React, Node.js, Next.js
- Soft Skills:** Technical Writing, Public Speaking, Project Mentorship, Event Management, Leadership

EXPERIENCE & STARTUPS

- Insolare Pvt Ltd** Remote
 - Full Stack & Computer Vision Intern* *May 2025 – Dec 2025*
 - Architecture:** Engineered a high-availability tri-server architecture (React, Node.js, and Flask ML service).
 - ML Implementation:** Deployed YOLOv11 for PPE compliance and ResNet50 for facial recognition.
 - Infrastructure:** Integrated MongoDB for telemetry and Supabase for cloud storage and authentication.
- KODO Shared Learning** Incubated at AIC
 - Co-Founder / Lead Developer* *July 2025 – Present*
 - Startup Incubation:** Leading technical development for a peer-to-peer platform incubated at AIC.
 - Networking:** Architecting modules to facilitate multi-domain knowledge exchange across student cohorts.
- Software Development Centre – MUJ** Jaipur, India
 - Full Stack Developer* *May 2024 – March 2025*
 - Project Delivery:** Collaborated with a cross-functional team to build and maintain two primary university applications: the Leave Management System (LMS) and the Notesheet Management System (NMS).
 - State Management:** Authored custom hooks (*useAuth*, *useLocalStorage*) for secure faculty sessions and state persistence.
 - Logic:** Developed complex multi-role request logic and automated administrative approval cycles for university-wide deployment.

PUBLICATIONS

- Research Chapter:** "A Comprehensive Framework for Anonymizing Structured Health Data" in *AI for Cyber Security and Industry 4.0*, Routledge, 2024.

SELECTED PROJECTS

- Safety Monitoring System:** Built an end-to-end PPE compliance and face recognition system. Features an admin dashboard for employee management and real-time history logs. *Tech: Next.js, Flask, Supabase.*
- Leave Management System (LMS):** Architected a university-wide leave portal with backend validation and automated administrative tracking. *Tech: Next.js, Node.js, Express.*
- Buildit Card Generator:** Automated member onboarding tool for 100+ students. Uses Canvas API for dynamic card rendering and React for frontend state management.

LEADERSHIP & AWARDS

- President, Buildit MUJ:** Leading a 100+ member dev club; tutored students and managed 20+ projects, providing technical oversight on Full stack and ML implementations.
- Executive Technical Lead, Oneiros MUJ:** Engineered high-traffic festival registration systems and designed the primary UI for MUJ's biggest cultural festival student portals.
- ACM Elicit '24 & '25:** Back-to-back 1st Place Winner at ACM's flagship technical symposium.
- Student Excellence Award:** Awarded by MUJ for exceptional contributions to the university software ecosystem.