

Moni Kumari

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Aspiring product engineer with experience developing AI-powered web and mobile applications using modern full-stack technologies.
Strong interest in building scalable, user-centric products and solving real-world problems through technology.

EDUCATION

CMR Institute of Technology, Bangalore

2024 - 2028

B.E. in Computer Science & Engineering (Data Science) | CGPA: 8.86

Kendriya Vidyalaya No.1 Panambur, Mangalore - Class XII (CBSE)

87% (2023)

Kendriya Vidyalaya Pazhavanthangal, Chennai - Class X (CBSE)

91.6% (2021)

TECHNICAL SKILLS

Languages: TypeScript, Python, JavaScript, SQL, C

Frontend: React Native (Expo), Next.js 15/16, React, Tailwind CSS, Framer Motion

Backend: Node.js, Express.js, REST APIs, Firebase Cloud Functions

AI/ML: Google Gemini API (text + vision), YOLO/Roboflow, OpenCV, MediaPipe, Prompt Engineering

Databases: Firebase (Auth + Firestore), Supabase (PostgreSQL), MongoDB

Tools: Git, Figma, Vercel, EAS/Expo, Razorpay, Claude Code, Cursor, Adobe XD, Notion

EXPERIENCE

Google Solution Challenge 2026 - Team 404 Coders

Apr 2026

- Built SahayakAI, an AI crisis response system for hospitality using Gemini 2.5 Flash for emergency classification
- Led frontend development and AI integration across a 4-member team, delivering a production-ready app in 8 weeks

INNOVATEX 4.0 Hackathon, Presidency University

2025

- Built two working prototypes in 9 hours: LitterLens (satellite garbage detection) and Syntrix (city-scale resource optimization)
- Designed and presented end-to-end system architecture to a panel of industry judges

PROJECTS

UniTrack - Mobile Attendance Tracker

[Live](#) | [GitHub](#)

- Built a monetized React Native app that scrapes ERP portals and calculates safe bunk counts with attendance projections
- Integrated Razorpay payments (Rs 19/mo subscription) with server-side verification and role-based feature gating
- Reduced timetable setup from 15 min to 30 sec using Gemini API photo extraction

React Native, Expo 54, TypeScript, Firebase, Razorpay, Gemini API

SahayakAI - AI Crisis Co-Pilot for Hospitality

[Live](#) | [GitHub](#)

- Built multilingual SOS triage system supporting 12 Indian languages with sub-2-second emergency classification
- Integrated Gemini Vision API for crowd density risk scoring from CCTV frames with real-time staff coordination

Next.js 15, TypeScript, Tailwind CSS, Google Gemini API (text + vision), Firebase, Vercel

LitterLens - Satellite Garbage Detection

[GitHub](#)

- Detects illegal garbage dumps from satellite imagery using YOLO object detection via Roboflow API
- Achieved detection-to-notification pipeline in under 30 seconds with BBMP ward-level mapping for Bengaluru

React Native, Expo SDK 54, TypeScript, Roboflow (YOLO), Firebase, Google Maps API

goIRL - Tech Events Discovery Platform

[Live](#) | [GitHub](#)

- Aggregates hackathons, meetups, and workshops across India with 3D MapLibre GL map view and daily auto-ingestion
- Built admin moderation panel, Supabase magic-link auth, calendar export, and social sharing

Next.js 16, TypeScript, Tailwind CSS, Supabase (PostgreSQL), MapLibre GL, Vercel

Syntrix - City-Scale Resource Optimization

[GitHub](#)

- Simulates water, electricity, and waste distribution across 9 Bangalore zones (20.4M population) with AI demand prediction
- Built 14 REST API endpoints for zone management, optimization triggers, and SDG metric tracking

Node.js, Express, React Native (Expo), Python sector simulator

ACHIEVEMENTS

- Google Solution Challenge 2026** - Built SahayakAI, selected for global submission (Team: 404 Coders)
- INNOVATEX 4.0, Presidency University** - Built 2 working prototypes in 36 hours (LitterLens + Syntrix)
- Shipped a monetized product** - UniTrack has paying subscribers via Razorpay integration
- Built and deployed 4 production-ready applications** used across web and mobile platforms
- College Basketball Team** - Member of CMRIT basketball team