Manjiri Gawali

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Experience

QuotesMill Aug 2026 - Present
Freelance Full-Stack Developer *Remote*

- Built the company website end-to-end with **React.js** and **Node.js**, with 5+ reusable components, 5+ responsive pages, and user journeys designed for easy navigation and conversion.
- Built a **WhatsApp AI agent** that detects customer intent, confirms requirements, gets vendor pricing, and sends quotations in **Hindi, Hinglish and English**; negotiation redirects the customer to the vendor, and confirmation shares the vendor's bank details for payment.
- Implemented automated **follow-ups** for unresponsive customers and **payment reminders**, reducing manual chasing by vendors.

EddyTools Tech Solutions May 2026 - Aug 2026
Trainee Software Developer *Remote*

- Engineered a reusable, data-driven landing page system with **Next.js** and **TypeScript**, cutting event page turnaround from 3 hours to 30 minutes (83% faster).
- Architected 5+ modular, prop-driven templates with scalable component structure and strict CSS isolation, enabling customization and deployment across 2+ client events.
- Delivered across 10+ Agile sprints (daily Scrum, sprint planning), partnering with clients and cross-functional teammates to turn requirements into shipped features.

Education

Vellore Institute of Technology, Bhopal Expected May 2027
B.Tech in Computer Science and Engineering, Health Informatics (CGPA: 8.93 / 10.00) *Bhopal, Madhya Pradesh*

- **Relevant Coursework:** Data Structures and Algorithms, Object-Oriented Programming with C++, Database Management Systems, Operating Systems.

Class XII (Higher Secondary) **93%**

Class X (Secondary School) **99.6%**

Projects

DropLine: Last-Mile Delivery Platform | *React Native, TypeScript, Express, WebSocket* live demo github link

- Built a 3-part delivery system: a **React Native driver app** (Android APK), an **Express + TypeScript backend** on Supabase Postgres, and a **live dispatcher dashboard** (React 19, TanStack Query, Leaflet + MapLibre) streaming updates over **WebSocket**.
- Designed **offline-first sync** with an SQLite outbox, **idempotency keys**, strict ordering and exponential back-off with jitter, proving **exactly-once** results in tests under a **30% server failure rate**.
- Implemented **background location every 10 s** with the screen locked via an Android foreground service and heartbeat, so dispatch never sees a gap over 30 s; tracking drops to a lighter idle mode between tasks.
- Shared one **delivery state machine** between app and server with a **100 m geofence**, camera-only **proof of delivery** stamped with time and GPS, **FCM push**, and English/Arabic with full **RTL**; covered by **215 automated tests**.

Parcel Reader: AI Shipment Data Extraction | *Node.js, React, Ollama (Qwen2.5-VL), Tesseract.js* github link

- Converts bulk warehouse scanner images into **CSV records** with the AWB, weight and dimensions, plus a status flag for each image.
- A **local vision model** checks each frame first (empty belt, multiple parcels, hand in the way, label cut off), and **OCR** runs only on frames that pass.

- Uses **multi-view OCR voting** (two passes must agree), adaptive binarisation, text rescaling and slashed-zero repair to read **8+ station overlay formats**; web app and CLI with a resumable background queue, evaluated on **262 real images**.

ECR Verifier: PF/ESIC Compliance Reconciliation | *Node.js, Express.js, React, pdfjs-dist, ExcelJS* github link

- Checks each employee's **PF and ESIC** deductions in a vendor wagesheet against the deposit records (ECR PDFs) from EPFO and ESIC.
- Reads the PDFs **by text position** and confirms every parse against the totals printed on the ECR, so a partial read can't pass unnoticed.
- Rule-based **name matching tuned for Indian names** (spelling variants, word order, abbreviations, Mr/Smt) with a ±₹1 rounding tolerance; **100% accurate on 16,000 verdicts** (8,000 employees, 370+ PDF pages) in about **3 seconds**, with a colour-coded Excel audit report.

FC P&L Monitor & Alert Digest | *Node.js, React, MongoDB, Ollama, Nodemailer, Slack* github link

- Computes daily **CM1 and CM2 margins** and each cost line as a % of revenue for every fulfilment centre, colour-coding each day against target ranges.
- Ranks problems by **rupee impact** and uses a **14-day baseline** to tell whether a breach came from overspending or low revenue; emails each FC manager a daily digest and shows all FCs on a central dashboard.
- The optional AI model only rewrites the wording, with a **guardrail** that rejects any text with a wrong number; validated on **18,250 FC-days** with zero missed or false flags.

Svastha-AI Medical Assistant | *Next.js, Express.js, Gemini API, PostgreSQL* live demo github link

- Architected a full-stack AI medical assistant using **Next.js**, **React**, and **Node.js/Express**, delivering a responsive dashboard for patient report management.
- Implemented a relational database using **PostgreSQL** and **Prisma ORM**, exposing **RESTful APIs** for patient record storage, retrieval, and updates.
- Engineered a document processing pipeline using **Tesseract.js** and PDF parsing, and integrated **Cloudflare Workers AI** and the **Gemini API** for edge-based report analysis and an interactive health-data chat feature.

Open ChatApp | *React.js, Node.js, Express.js, MongoDB, Socket.IO* github link

- Developed a full-stack **MERN chat application** with **React.js, TypeScript, Node.js, Express.js, and MongoDB**, supporting authentication, user discovery, private messaging, and chat management.
- Strengthened application security with **JWT authentication** and **bcrypt password hashing**, implementing protected routes and persistent login sessions for authenticated users.
- Integrated **Socket.IO** for real-time message delivery, enabling users to exchange messages instantly without page refreshes through a responsive, component-driven chat interface.

Technical Skills

Languages: C++, JavaScript, TypeScript, Java, Python
Frontend & Mobile: React.js, Next.js, React Native (Expo), TanStack Query, Tailwind CSS, HTML, CSS
Backend: Node.js, Express.js, MERN Stack, RESTful APIs, WebSocket, Socket.IO, JWT, bcrypt
Databases: MongoDB, PostgreSQL, MySQL, SQLite, Supabase, Firebase, Prisma, Kysely
AI & Data: Gemini API, Ollama (local vision models), Tesseract.js OCR, pdfjs-dist, ExcelJS
Tools: Git, GitHub, Postman, Jest, Vercel, Render, Claude (AI-assisted development)

Leadership and Extracurricular Activities

Design Team Member, Edu4U : Created 15+ digital marketing assets for 5+ events, enhancing event branding.
Public Speaker and Team Lead : Directed 5+ teams and coordinated technical events for 100+ attendees.
Problem Solving : Solved 150+ Data Structures and Algorithms problems.