

# Yadhu M R Gowda

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portfolio-rho-orcin-47.vercel.app

## SUMMARY

Backend and Full Stack Engineer with production experience building scalable APIs, Retrieval-Augmented Generation (RAG) system, and cross-platform applications using Node.js, TypeScript, React, MongoDB, and Python. Proven experience shipping production features across Android, iOS, and Web platforms with end-to-end ownership spanning backend architecture, database design, workflow automation, and performance optimization. Actively building expertise in AI engineering, LLM applications, intelligent backend systems, and startup-scale product development.

## TECHNICAL SKILLS

**Languages:** JavaScript, TypeScript, Python

**Frontend:** React.js, Next.js, React Native, Tailwind CSS, React Native Skia

**Backend:** Node.js, Express.js, NestJS, REST APIs, JWT Authentication, Passport.js, WebSockets

**Databases:** PostgreSQL, MongoDB, Redis, WatermelonDB

**AI Engineering:** LLM API Integration, OCR Pipelines, AI workflows, LangChain, Vector Databases (Pinecone/ChromaDB), RAG Architecture, LLM Orchestration

**Tools & Infrastructure:** Docker, Git, Firebase, Postman, Grafana, Prometheus

## EXPERIENCE

### Full Stack Developer Intern

*Modulus Seventeen*

Dec 2025 – Present

*Bengaluru, India*

- Delivered production features across Android, iOS, and Web platforms using React Native, React.js, Node.js, TypeScript, and MongoDB.
- Engineered a scalable JWT authentication system with refresh token rotation supporting 6+ concurrent active sessions per user.
- Designed and maintained 5+ REST APIs powering billing, catalog management, analytics, and operational workflows serving production traffic.
- Reduced manual product entry effort by 60% through fuzzy search, barcode workflows, and OCR-powered bill scanning automation.
- Architected a GST-compliant billing engine supporting invoice generation, tax calculations, credit tracking, and financial workflow automation.
- Developed reusable frontend component systems improving engineering velocity by 35% across product development workflows.

### Founder & Product Engineer

*Y-Axis Tech*

Feb 2024 – Present

*Bengaluru, India*

- Leading development of logistics and supply-chain software focused on optimizing last-mile delivery operations and shipment coordination workflows.
- Designed backend systems and relational database architecture for order management, shipment tracking, route assignment, and driver management systems.
- Implemented delivery lifecycle workflows and scheduling logic improving operational coordination efficiency by 50%.
- Directed end-to-end product execution across backend engineering, database design, architecture planning, and technical roadmap development.

## PROJECTS

### FinPace | AI-Powered Financial Tracking Application | React Native, OCR, LLM APIs

- Built a privacy-focused financial tracking application using local-first architecture with WatermelonDB supporting fully offline workflows.
- Integrated NVIDIA Llama Vision API and OCR pipelines for automated receipt extraction and AI-powered expense tracking workflows.
- Developed custom rendering systems using React Native Skia achieving consistent 60 FPS performance on mobile devices.
- Implemented financial automation modules for EMI tracking, recurring payments, and long-term financial simulations.

### AWHA | Industrial Anomaly Detection System | Python, Machine Learning

- Developed machine learning pipelines for anomaly detection using preprocessing, feature engineering, and model evaluation workflows.
- Achieved 97% anomaly detection accuracy on industrial time-series sensor datasets using statistical and ML-based techniques.

## EDUCATION

### Amrita Vishwa Vidyapeetham

*B.Tech in Electronics and Communication Engineering*

Bengaluru, India

2022 – 2026