

BINOY MANOJ

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PROFESSIONAL SUMMARY

Full Stack Developer with 3+ years of experience building and scaling web applications and APIs using Node.js, Next.js, React, and Go. Currently engineer healthcare data infrastructure handling high-volume, real-time data pipelines with a strong focus on security, compliance (HIPAA/GDPR), and system reliability. Background in cybersecurity with hands-on experience in vulnerability assessment and penetration testing. Comfortable owning a feature end to end, from architecture and API design to deployment and monitoring.

PROFESSIONAL EXPERIENCE

Full Stack Developer

Oct 2025 - Present

Tracky by Drstore • India

- Drive core engineering for Tracky, a multi-vital health monitoring platform integrating devices including CGM, weight scale, pulse oximeter, smart ring, ABPM, thermometer, and BP monitor, handling real-time data syncs every 3 minutes across 1,000+ active users and 24,000+ total users.
- Designed and implemented a Kafka-based queue system to manage high-throughput data ingestion, reducing processing latency and server load while ensuring zero data loss for critical health records.
- Engineered a hot/warm/cold data archival system to organize and optimize storage for 10+ crore records, improving query performance and reducing storage costs on older data.
- Developed and maintained Node.js REST APIs powering the mobile app, admin dashboard, and organization dashboard, alongside a Next.js admin panel supporting patient data views, AI-powered analytics dashboards, report exports, and application configuration.
- Created an AI chatbot and automated report analyzer using Python, FastAPI, and LangChain/LangGraph to generate health insights and alerts from patient data.
- Implemented JWT-based authentication with refresh token rotation and session management, closing existing security gaps in the login and session flow.
- Spearheaded a full application version upgrade and performance optimization initiative that cut system response times by roughly 2x.
- Enforced secure coding practices to maintain HIPAA and GDPR compliance, including encrypted storage of sensitive credentials such as API secrets; conducted regular vulnerability assessments across the platform and remediated identified security gaps.
- Integrated third-party services, configured rate limiting and caching layers, and carried out performance profiling; monitored system health with Grafana and New Relic to maintain high uptime.
- Partnered closely with the infrastructure team on deployments and server-side changes, mentored junior developers, and resolved production issues across the stack.

Full Stack Web Developer

Jul 2023 - Oct 2025

TechBees Hive Technologies • Tamil Nadu, India

- Developed and shipped 15+ scalable web applications using React.js, Next.js, and Node.js, improving overall performance by 40% and reducing page load times through optimized rendering and backend integration.
- Architected and deployed server-side applications and RESTful APIs, decreasing response times by 35% and achieving 99.9% uptime through optimized database queries and caching strategies.
- Delivered enterprise-grade solutions including e-commerce platforms, billing systems, and service booking applications using Redux/Jotai for state management, Express.js, and MySQL with Prisma ORM.
- Directed cross-functional development teams of 5+ members across 3 major projects, managing the full development lifecycle from requirements gathering to deployment under Agile methodologies.

Web Development Intern

May 2023 - Jun 2023

TechBees Hive Technologies • Tamil Nadu, India

- Created 2 responsive, mobile-first websites using Next.js, Tailwind CSS, and TypeScript, including the company's primary landing page, which increased visitor engagement by 25% and improved conversion rates.

FEATURED PROJECTS

Home Server - Self-Hosted Media & Remote Sync System — Raspberry Pi 4, Linux, WireGuard VPN

- Self-hosted a home media server on Raspberry Pi 4, serving a personal media library across 15+ devices for 5 users with automatic sync between all connected devices.

- Configured a private VPN for secure remote access, enabling encrypted remote login and device sync from anywhere without exposing any services to the public internet.

Mesaix – Smart QR-Based Food Ordering System — *Next.js, TypeScript, Supabase, PostgreSQL* (mesaix.com)

- Developed a SaaS platform for restaurants and cafeterias featuring QR-based ordering, POS integration, and kitchen order ticket (KOT) management, streamlining operations and increasing customer satisfaction by 30%.
- Integrated Razorpay and LemonSqueezy payment gateways with Shadcn/ui components, achieving a 99.8% payment success rate with secure, optimized transactions.

Music Recommendation System (In Progress) — *Python*

- Building a mood-, location-, and genre-based music recommendation engine that analyzes local FLAC audio files; currently in the research and setup phase.

BrandXchange – Entertainment Industry Collaboration Platform — *React.js, Node.js, MySQL* (brandxchange.media)

- Engineered a B2B platform connecting movie production houses, brands, and costume designers for film pitching, product sourcing, and project management, serving 500+ industry professionals.
- Implemented role-based authentication, e-commerce workflows, user profile management, and advanced search functionality.

Mithraveda – E-commerce Platform — *Next.js, Laravel, React Query* (mithraveda.techbeeshive.in)

- Crafted a brand-centric e-commerce platform for an organic cosmetics brand with advanced product filtering, personalized recommendations, and a streamlined checkout, achieving 40% higher customer engagement.
- Leveraged React Query and Shadcn/ui to optimize API calls and state management, resulting in 25% higher conversion rates versus industry standards.

OPEN SOURCE & DEVELOPER TOOLS

- Neotree (Neovim file explorer) – Contributed a Git integration feature to this open-source plugin (Lua), used daily as part of a Neovim-based development workflow.
- dotfiles – Personal Arch Linux + Hyprland system configuration; 60+ GitHub stars.
- tmux-minimal-theme – A minimal, customizable tmux status line with built-in system monitoring; 45+ GitHub stars.
- tmux-zenflow – A minimal tmux workflow plugin for focused development sessions.
- WAART (Web Application Automated Recon Toolkit) – Curated and automated a set of penetration testing tools into a single reconnaissance workflow, cutting manual tool-running time.
- Full project list available at github.com/binoymanoj (38+ public repositories, 85+ stars).

TECHNICAL SKILLS

Programming Languages: JavaScript, TypeScript, Go, Python

Frontend Development: React.js, Next.js, HTML, CSS, Tailwind CSS, Shadcn/ui

Backend Development: Node.js, Express.js, Fastify.js, FastAPI, RESTful APIs, Kafka

AI / ML Tooling: LangChain, LangGraph, RAG

Database & ORM: MySQL, PostgreSQL, MongoDB, Prisma ORM, GORM

DevOps & Cloud: Git, GitHub, Docker, CI/CD, AWS, Vercel, Netlify, Grafana, New Relic

Security: Vulnerability Assessment, Penetration Testing, Burp Suite, Wireshark, Nmap, Metasploit, Secure Coding (HIPAA/GDPR), CTF Practice

Tools & Environment: Linux (Arch), Vim/Neovim, VS Code, Postman, Bash Scripting

EDUCATION

Bachelor of Computer Applications (BCA)

2020 – 2023

Periyar University • CGPA: 7.7/10

- Relevant Coursework: Data Structures & Algorithms, Database Management Systems, Software Engineering, Computer Networks, Web Development, System Design, Object-Oriented Programming.

INTERESTS

Chess (casual player), reading (primarily non-fiction), badminton, and gym.