Pankaj

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EXECUTIVE SUMMARY

A full-stack developer with 3 years of experience delivering scalable web solutions for global clients. A collaborative and results-driven professional with **MERN development expertise**, API integration skills, and cloud deployment experience.

FUNCTIONAL EXPERTISE

- **MERN Stack Development**
- **RESTful API Design**
- **UI Binding Techniques**
- **Scalable Web Architecture**
- **Unit & Integration Testing**
- **SQL & NoSQL Database**

CORE SKILLS & TOOLS

Languages: JavaScript, TypeScript, SQL

Frameworks: React.js, Next.js, Node.js, Express.js, Tailwind CSS, Bootstrap

Cloud & DevOps: AWS (ECS, Lambda, S3, SQS), Docker, Kubernetes, CI/CD (GitHub Actions, Jenkins)

Databases: MongoDB, PostgreSQL, MySQL, MS SQL, Redis

Message Brokers & Event Streaming: Kafka, RabbitMQ, AWS SQS

Practices: Micro-services, Event-Driven Design, Clean Architecture, DDD, Agile/Scrum

FUNCTIONAL EXPERTISE DEMONSTRATED

Inventcolabs

May 2024 – Present

Led full-stack development using MERN, MQTT, and CI/CD pipelines; managed backend architecture and mentored a team of 20 in DevOps-heavy projects.

Full Stack Developer

Developed MERN apps with SQL/NoSQL and Next.js in a 20-person team, ensuring maintainable TypeScript code and smooth cross-functional collaboration.

- **Full-stack Expertise:** Built and maintained end-to-end MERN solutions, ensuring seamless integration across front-end and back-end services.
- **React Frontend Mastery:** Implemented UI components in React, improving user interaction and consistency in complex projects.
- **REST/GraphQL Integration:** Prepared backend endpoints for future API enhancements, enabling flexible data exchange.
- **Cloud Infrastructure:** Coordinated with teams to ensure readiness for cloud deployments, aiming for scalable architectures.

SOLUTION4RETAIL

Jun 2022 – May 2024

A 50-person IT provider offering billing, inventory, POS, and payroll solutions to retail clients.

Full Stack Developer

Managed MERN development and RESTful APIs for a 10-person team, achieving significant mobile engagement gains and faster load times.

- **Full-stack Expertise:** Drove a 40% boost in mobile engagement and halved load times, optimizing both front-end and back-end.
- **Node.js Mastery:** Refined server-side code, reducing load times by 50% and enhancing performance for data-heavy workflows.
- **Proactive Debugging:** Identified critical bottlenecks, receiving recognition for rapid problem-solving and stable deployments.

NEWITZONE (INTERNSHIP)

Dec 2021 – May 2022

A 10-person IT startup focused on delivering immersive web solutions and hands-on development experience.

Frontend Developer

Improved page speed by 30% and delivered pixel-perfect layouts in a 5-person team, gaining practical front-end experience.

- **React Frontend Mastery:** Converted mockups into functional pages, boosting speed by 30% and enhancing user interactions.
- **Proactive Debugging:** Troubleshot and resolved layout and performance issues, improving user flows and reliability.

PROJECTS

1. VEHICLE RECOVERING APP — React.js, Node.js, MySQL

- **Built a multi-tenant platform** with separate Admin and Vendor portals; enabled vendors to upload delinquent-EMI vehicle data and manage recovery teams.
- **Implemented RBAC** down to action level (view, assign, close) using JWT + MySQL row-level permissions, tightening data security and auditability.
- **Designed subscription workflow** (Stripe API) that auto-provisions vendor workspaces and sends renewal reminders.
- **Optimized queries & indexes** to keep dashboard load < 1s on a table that grows daily; added cron archiving for cold data.

2. Education Platform — React, Node.js, Socket.io, MySQL

- **Architected a three-panel system** (Admin, Tutor, Student) supporting real-time booking, chat, and session logging.
- **Integrated Socket.io** for instant tutor–student messaging and lesson status updates.
- **Built calendar & payment modules:** students book time-slots, tutors manage availability; Stripe webhooks trigger invoices and reminder emails.

- **Set up CI/CD (GitHub Actions → Docker → AWS ECS)** so new features reach production the same day they are merged.

3. Betting App — Next.js, Node.js, MongoDB, React Native (API)

- **Delivered a cross-platform wagering system** (mobile app + web + admin) capable of high-frequency bet placement and live-odds updates.
- **Created a results engine** that ingests third-party sports feeds, auto-declares outcomes, and calls the wallet microservice to settle balances.
- **Hardened payments & wallet logic** with double-entry ledger design; wrote unit tests covering edge cases like partial cancellations.

4. SECOND-HAND MOBILE E-COMMERCE — React, Node.js, MongoDB

- **Launched an admin-first CMS** where staff list devices with variant attributes (color, RAM, storage, condition) and bulk-upload images.
- **Implemented dynamic pricing**: discounts auto-apply when inventory ages or condition grade drops.
- **Added Stripe checkout payments.**
- **Wrote Cloudinary image pipeline** that compresses & watermarks photos at upload, cutting CDN bandwidth while protecting IP.

5. SALE-REPORT GRAPH SYSTEM — Next.js, Node.js, MS SQL, Windows Service

- **Engineered a Windows service** deployed on vendor machines; batches sales data every 10 min and posts securely to the central API.
- **Normalized incoming data** into star-schema tables; scheduled SQL ETL jobs for nightly roll-ups.
- **Built analytics dashboard** (charts, tables, drill-down filters) using React-Query + Highcharts; vendors track revenue and SKU performance at a glance.
- **Added role-based export tools** (CSV, PDF) and email digests so executives receive daily summaries without logging in.

6. FINANCIAL ADVISOR CHAT APP — React.js, Node.js, LangChain, OpenAI, Socket.IO, MongoDB

- **Developed real-time chat interface** with React + Socket.IO, enabling instant user–bot and user–advisor communication with message acknowledgments and typing indicators.
- **Integrated LangChain with OpenAI API** to create context-aware, chain-of-thought prompts tailored to finance topics like SIPs, loans, and savings strategies.
- Designed a **modular backend with Node.js** and Express, connecting users to either a live advisor or the AI assistant based on availability.

EDUCATION

Diploma in Computer Science. Board of Technical Education, Rajasthan

High School. ACL School, State Board (Alwar, Rajasthan)

OTHER RELEVANT INFORMATION

Additional Languages: Hindi (Native), English (Communication)