

Amuk Kumar

Frontend-Focused Full Stack Developer (React.js & Next.js Specialist)

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Professional Summary

Frontend-focused Full Stack Developer with 2+ years of experience designing and building scalable, high-performance React.js and Next.js applications. Specialized in UI architecture, offline-first systems, real-time features, and performance optimization for high-volume production environments. Experienced in developing secure REST APIs using Node.js and NestJS, delivering scalable end-to-end product solutions in fast-paced startup ecosystems.

Professional Experience

Full Stack Developer — Techmatic Systems

Hyderabad, Telangana

Apr 2025 – Present

Cloud POS | *React.js, IndexedDB, Offline-First Architecture, REST APIs*

- Architected and developed the complete frontend system from scratch, designing complex POS workflows, billing logic, and real-time transactional user interactions.
- Engineered an offline-first architecture using IndexedDB with seamless bi-directional data synchronization between offline and online environments.
- Implemented conflict-resolution mechanisms to ensure transactional consistency across distributed systems.
- Designed scalable component architecture and optimized rendering cycles to support high-volume transactional workloads.
- Implemented advanced state management patterns to efficiently handle complex POS business logic.

Bottle POS | *React.js, Context API, Jest, PHP, MySQL*

- Resolved 200+ production issues across billing, inventory, and transaction modules, significantly improving platform stability and reliability.
- Refactored state management and optimized rendering strategies, improving UI responsiveness by 30%.
- Eliminated critical billing and state inconsistencies, ensuring 100% transaction accuracy.
- Collaborated cross-functionally to integrate REST APIs and enhance real-time POS workflows.

Fennec | *NestJS, PostgreSQL, Redis, Swagger, JWT, RBAC*

- Designed and implemented modular REST APIs using NestJS with comprehensive Swagger documentation.
- Built Checklist and Inventory Tracking modules with secure Role-Based Access Control.
- Optimized database queries and indexing strategies, reducing API response time by 40%.
- Integrated Redis caching and rate limiting to improve authentication scalability and performance.

Software Engineer — Intelli Edtech

Gurgaon, Haryana

Jun 2024 – Mar 2025

- Architected and developed a scalable EdTech platform supporting AI-driven learning, dynamic content delivery, and real-time classroom collaboration features.
- Designed end-to-end frontend and backend architecture, including API design, authentication flows, and modular service structuring for scalability.
- Optimized MongoDB schema design and indexing strategies to improve performance under high concurrent usage.
- Integrated Gemini Vertex AI to develop an AI-powered chatbot using advanced prompt engineering and microservices architecture.
- Implemented WebSocket-based real-time features to enable interactive learning sessions.
- Managed AWS and GCP CI/CD pipelines, automating build, testing, and deployment workflows.
- Improved backend efficiency by 25% through refined data modeling, caching strategies, and API optimizations.

Technical Skills

Frontend: React.js, Next.js, Redux, Context API, Tailwind CSS, MUI, IndexedDB

Backend: Node.js, NestJS, Express.js, REST APIs

Databases: PostgreSQL, MongoDB, MySQL

Architecture: Offline-First Systems, RBAC, Real-Time Systems, API Design

Cloud & DevOps: AWS, GCP, CI/CD, Docker

Testing & Tools: Jest, React Testing Library, Git, Postman

Selected Projects

Flipix Album | *React, Redux, PHP, MySQL, JWT, Framer Motion (2025)*

Live Project

- Engineered an interactive digital album platform with advanced UI animations and media playback integration.
- Designed a scalable multi-role admin dashboard with granular access control and secure authentication.
- Integrated PhonePe payment gateway for subscription-based monetization.
- Developed RESTful APIs and optimized media delivery for high-performance content rendering.

GetMeMarry – Matrimony Platform | *ReactJS, React Native, Firebase, PHP, MySQL (2024)*

Play Store

- Built a full-stack matrimonial platform with advanced profile filtering and real-time messaging.
- Optimized search performance, reducing query latency by 40%.
- Integrated CCAvenue subscription payments, increasing paid user conversion by 20%.
- Implemented Firebase-based real-time chat across Android and iOS platforms.

Selecto – Desktop Product | *C#, .NET, MySQL, JWT (2022)*

Live Product

- Developed photo selection software reducing manual image culling time by 60%.
- Integrated Razorpay payments and wallet-based recharge system, increasing user retention by 40%.
- Optimized MySQL queries, improving system performance by 35%.

Education

Master of Computer Applications (CGPA: 8.49)

2024

LNCT University

Bhopal, MP

Bachelor of Computer Applications (74%)

2022

TNB College

Bhagalpur, Bihar