

# Devesh Sharma

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## Experience

### Leadchain Systems

Dec 2024 – Present

Full Stack Software Engineer

Noida, UP

- Architected a **type-safe, real-time screen streaming platform** using **TypeScript, Electron.js, WebRTC, Mediasoup SFU, Socket.IO, and Node.js**, implementing **JWT-authenticated signaling**, room-based streaming, dynamic producer/consumer lifecycle management, and fault-tolerant session recovery across network and system interruptions to support **100+ concurrent streaming sessions**, maintain **sub-250 ms latency**, and enable **AI-driven assistance and automated workflows**.
- Architected and developed a scalable **multi-channel WhatsApp messaging and automation platform**, exposing production-ready **REST APIs** for text, media, documents, group messaging, and automated conversational workflows, supporting **500K+ messages/month** across multiple business channels.
- Engineered a distributed message orchestration layer using **BullMQ** and **Redis**, implementing asynchronous processing, per-instance queue isolation, configurable dispatch pacing, retries, priority scheduling, dead-letter handling, and failure recovery, reliably processing **20K+ jobs/day** with **99.9% delivery reliability**.
- Designed and implemented a scalable **AWS S3-backed media storage and asynchronous processing pipeline**, using durable object references instead of large message queue payloads to reduce data transfer overhead, decrease queue payload size by **90%+**, improve worker throughput by **35%**, and efficiently process **10K+ media files/day**.
- Engineered an end-to-end **Retrieval-Augmented Generation (RAG)** conversational intelligence pipeline using **Milvus** for vector storage and semantic search, and **NVIDIA NIM-hosted LLMs** for context-aware question answering, indexing **100K+ vector embeddings** and implementing **retrieval reranking** to improve relevance and response quality.
- Built real-time **platform intelligence, observability, and operational analytics** covering queue monitoring, job lifecycle tracking, platform health, audit logs, delivery/read status, reactions, replies, participant activity, and message performance, tracking **25+ operational metrics** to power **AI-driven workflow optimization**, automated anomaly detection, and proactive troubleshooting across distributed services.
- Integrated messaging services with **AI-powered workflows** and conversational chatbots, orchestrating **LLM-driven automation pipelines** while designing reusable **API and adapter layers** for seamless integration with CRM, ERP, accounting, and legacy applications, enabling **10+ enterprise integrations** without coupling business systems to channel-specific infrastructure.
- Designed secure **multi-tenant SaaS architecture** with organization-aware data access, **JWT authentication, RBAC**, granular permissions, and tenant isolation; engineered scalable **PostgreSQL** schemas, migrations, indexes, relational constraints, and **OpenAPI-driven type-safe API integration**, supporting **50+ tenant organizations** and **100+ role-permission combinations**.
- Engineered an **end-to-end type-safe API workflow** using **NestJS, OpenAPI, Zod, Orval, and TanStack Query**, automating generation of **TypeScript API clients, request/response models, and React Query hooks** from backend contracts for **120+ API endpoints**, eliminating duplicate frontend API types, preventing contract drift, and reducing frontend integration effort by **40%**.

## Projects

**nerdShare** | *TypeScript, React.js, WebRTC, WebSockets, Bun* | GitHub

- Built a privacy-first **peer-to-peer (P2P) file-sharing platform** using **WebRTC DataChannels** and **WebSocket signaling**, enabling direct browser-to-browser file transfers without server-side file storage.
- Designed a **TypeScript monorepo architecture** with a **React/Vite** frontend, **Bun**-based signaling server, and shared type contracts, enabling type-safe client-server communication and maintainable real-time application development.

**Kebo** | *TypeScript, React.js, Chromium Extension APIs* | GitHub

- Developed a **Raycast-inspired command interface for Chromium browsers** using **TypeScript and React.js**, providing a keyboard-first command palette for fast search, navigation, and execution of browser actions.
- Engineered a modular and extensible **browser extension architecture** with reusable React components and command abstractions, enabling maintainable browser automation and productivity workflows.

Technical Skills

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**Languages:** TypeScript, JavaScript, Python, C++, Bash  
**Frontend:** React.js, Next.js, TanStack Query, Zustand, Redux Toolkit, Tailwind CSS, Electron.js  
**Backend & APIs:** Node.js, NestJS, Express.js, Fastify, REST APIs, OpenAPI, Orval, Zod, JWT, WebSockets, Socket.IO  
**Databases & Storage:** PostgreSQL, MySQL, MongoDB, Redis, Milvus, AWS S3, Firebase  
**Real-Time & Distributed Systems:** WebRTC, Mediasoup SFU, BullMQ, Message Queues, Asynchronous Processing, Real-Time Communication  
**AI & LLM:** RAG, NVIDIA NIM, Vector Databases, Semantic Search, Retrieval Reranking, Conversational AI  
**Cloud & DevOps:** AWS, Docker, Linux, Ubuntu, Git, GitHub, Azure DevOps, CI/CD

Education

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|------------------------------------------------------|--------------------------|
| <b>Noida Institute of Engineering and Technology</b> | Nov 2022 - Aug 2024      |
| <i>Master of Computer Applications (GPA: 8.10)</i>   | <i>Greater Noida, UP</i> |