Dushyant Singh Shekhawat

Senior Software Engineer | Backend Systems | AI Systems | Product Engineering

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Professional Summary

Hands-on engineering leader with 14+ years of experience building AI, SaaS, fintech, mobile, and B2B platforms from ambiguous requirements to production. Operates at CTO-level scope in small-company environments while remaining a strong individual contributor: setting technical strategy, leading engineers, owning client delivery, and implementing complex architecture and product work. Recent experience includes LLM applications, voice AI, audit automation, and enterprise systems for clients including ICICI Bank.

Core Expertise

Distributed Systems AI Systems & Orchestration Backend Architecture PostgreSQL & Data Modeling
Event-Driven Systems Real-Time Systems API Design Performance Optimization Cloud Infrastructure

Technical Skills

- **Primary languages:** Python, Elixir, Ruby, JavaScript/TypeScript, Go
- **Frameworks and systems:** Django, Phoenix/LiveView, Ruby on Rails, React, Next.js, REST APIs, distributed systems, async/background processing, event-driven systems
- **AI systems:** LLM applications, AI orchestration, LangChain, LangGraph, LiveKit, Whisper
- **Data and infrastructure:** PostgreSQL, MySQL, Redis, RabbitMQ, Databricks, AWS, Kubernetes, Docker
- **Product and leadership:** technical strategy, system architecture, engineering management, mentoring, client delivery, product discovery
- **Additional experience:** React Native, Android, Kotlin, Java

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Professional Experience

Head of Technology — Jinacode | May 2024 - Present

Technologies: Python, Django, React, Next.js, LangChain, LangGraph, LiveKit, Whisper, Celery, Redis, PostgreSQL, Databricks, Docker

- Own technical strategy and production delivery for AI products across multiple client engagements, combining CTO-level client ownership with Staff-level architecture and hands-on implementation
- Delivered an AI-powered MOC audit system for ICICI Bank on Databricks and NVIDIA A100 infrastructure, processing 5 large audit reports across technology departments for RBI compliance workflows
- Architected a voice audit platform using Whisper transcription and LLM analysis, reducing hotel call reviews from 30-60 minutes to 2-5 minutes per call and enabling roughly 10x faster review throughput
- Prototyped real-time AI voice workflows with LiveKit and multi-step LangChain / LangGraph agents, validating low-latency customer-facing automation patterns for client businesses
- Led architecture of Jina Connect, an omnichannel customer-engagement platform spanning WhatsApp chatflows, team inbox, AI voice agents, IVR, and outbound voice campaigns, while training junior engineers to deliver effectively across the system

Senior Software Engineer (Contract) — Xuku LLC | Remote | Oct 2023 - Present

Technologies: Elixir, Phoenix, LiveView, PostgreSQL, Stripe, Playwright

- Led platform modernization as a senior contractor, owning Elixir and Phoenix/LiveView architecture while shipping production features across analytics, billing, and reporting
- Architected a Phoenix LiveView component system and migrated away from Surface components across 30+ UI components, establishing reusable patterns that reduced repeated implementation work by roughly 70%
- Built reporting and analytics workflows with data visualizations and PDF generation for hundreds of agencies and thousands of brokers, supporting 2-3 reports per broker per day across commercial real estate operations
- Integrated Stripe billing and subscription management, then upgraded the platform to Phoenix 1.8, LiveView 1.1, and Elixir 1.19 / OTP 28

Senior Software Engineer (Contract) — Nearcut | Remote | Jan 2022 - Jul 2024

Technologies: Ruby on Rails, JavaScript, MySQL, Redis, Sidekiq, Stripe

- Enhanced Nearcut's most requested timetable feature by building a custom appointment-slot algorithm for variable-length bookings; estimated impact was ~30% churn reduction and ~20% sales improvement
- Redesigned onboarding from 8 steps and 32-64 fields to 5 steps and 6 fields across sign-up, staff setup, and services; lifted conversion by ~50% and reduced early churn by ~20%
- Standardized reusable UI primitives for autocomplete, multi-select, and file upload flows, improving delivery consistency across interaction-heavy product surfaces

Engineering Manager — BlueSapling Technologies | Remote | Jun 2019 - Dec 2021

Technologies: Ruby on Rails, React, React Native, Node.js, Go, PostgreSQL, MySQL, Redis, RabbitMQ, Kubernetes, Docker

- Led a 7-engineer team while architecting high-complexity reporting, audit, invoicing, tax, and extensibility systems across the core product
- Built advanced reporting framework using materialized views and dynamic query generation that became the company's primary differentiator, contributing to 10x user growth and ~50% sales growth under full technical ownership
- Owned delivery of a microservices loyalty platform using Rails, Node.js, Go auth services, RabbitMQ, and Kubernetes, coordinating service boundaries and deployment architecture for an external client
- Internationalized the tax calculation engine and built a flexible custom fields system, enabling Distributo to support markets beyond India without hard-coded country logic
- Supported reporting workloads for hundreds of clients, including roughly 10x seasonal traffic spikes during tax periods

Earlier Experience

- **Lead Mobile Developer — BlueSapling Technologies | May 2018 - May 2019:** Led Distributo's field sales app for a few hundred reps across 5 cities and roughly 10 orders per rep per day
- **Android Developer — Zuper GmbH | May 2017 - Apr 2018:** Modernized fintech banking flows and added security hardening plus CI/CD testing, reducing customer-facing issues by ~55%
- **Software Engineer — Loktra | Jul 2016 - May 2017:** Owned Android apps for real-time logistics tracking and route visualization as sole developer
- **Freelance Software Engineer | May 2012 - Jul 2016:** Delivered 20 Java/Spring, Android, and web projects across varied client domains

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Education

B.Tech — Indian Institute of Technology Roorkee | 2008 - 2012