

Lokesh Kaushik

Full Stack Engineer | AI Products & Backend Systems

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Skills

Languages & Frontend: TypeScript, JavaScript, React.js, Next.js, React Native, Redux, Zustand, Tailwind CSS

Backend & Data: Node.js, Express.js, PostgreSQL, Drizzle ORM, Prisma, MongoDB, Redis, BullMQ, REST APIs

AI Engineering: LLM application development (OpenAI, Anthropic, Gemini), structured outputs & function calling, prompt engineering & versioning, LLM evaluation and self-correction loops, Vercel AI SDK

Cloud & DevOps: AWS (ECS, ECR, S3, RDS, Secrets Manager), Docker, GitHub Actions CI/CD, Turborepo, Git

Experience

Senior Full Stack Engineer

Oct 2024 – Present

Second Brain Labs (sbl.so)

📍 Bengaluru, India

- Own end-to-end delivery of an AI sales-automation platform serving **thousands of business workspaces**, spanning a **16-service TypeScript monorepo** (Next.js, Express) running on AWS ECS.
- Led the AI lead-discovery initiative that lets customers describe their target audience in plain English instead of hand-tuning search filters, turning audience building into a self-serve flow that has sourced **hundreds of thousands of prospects**.
- Designed distributed scheduling across a pool of **thousands of connected LinkedIn and WhatsApp accounts (millions of messages delivered)** using per-account rate budgets, distributed locking, and cursor-based batching to guarantee no account is ever used by two jobs at once.
- Cut database CPU on the platform's heaviest workload by profiling with **pg_stat_statements** and rewriting the top query from a DISTINCT fan-out to a correlated EXISTS, unblocking further scale on the same instance.
- Consolidated separately deployed microservices into a **Turborepo** with remote caching and parallel GitHub Actions builds, taking full-stack deploys from several minutes per service to **~2.5 minutes** for all services; added release-branch deploys for isolated prod/dev environments.
- Shipped multi-channel messaging over LinkedIn and WhatsApp with AI-selected attachments and generated voice notes, plus staged pre-outreach engagement steps that measurably lifted campaign reply rates.

Full Stack Developer

Dec 2023 – Oct 2024

TechVastra

📍 Remote

- Founding engineer for a B2B mobile product; built the **React Native** Android/iOS app end to end and shipped it to the Play Store and App Store.
- Built supporting backend APIs with **Express** and **MongoDB**, covering authentication, media upload, and forced-update flows.

Frontend Developer Intern

Jun 2023 – Dec 2023

ThinkGestalt

📍 Remote

- Built responsive marketing and product pages in **React.js/Next.js**, and cross-platform Android apps with **React Native** and **ionic**.

Projects

AI Lead Discovery Engine | sbl.so | Conversational ICP → verified lead lists

- Built an LLM pipeline that converts a free-form conversation about a customer's ideal buyer into a **structured, provider-validated search**, surfacing criteria the data source cannot serve instead of silently approximating them; **hundreds of thousands of prospects** sourced to date.
- Added a **verifier and self-revision loop** that independently grades every generated query against the customer's stated requirements and rewrites it until it passes, raising first-pass acceptance from **9% to ~100%** on the evaluation set.

- Engineered the extraction runtime for reliability at scale: resumable cursor-based batching, per-account rate accounting, automatic **failover to healthy accounts**, and quarantine of unhealthy ones.
- Versioned and evaluated prompts in **Langfuse** so model and prompt changes ship behind measured quality gates instead of guesswork.
- **Tech:** Next.js, Express, LLM APIs, Langfuse, PostgreSQL/Drizzle, Redis, BullMQ, AWS ECS, Docker

Multi-Channel Outreach Automation Engine | sbl.so | Campaign delivery across LinkedIn & WhatsApp

- Built the campaign runtime that delivers personalized message sequences across **thousands of pooled accounts (millions of messages delivered)**, enforcing per-account rate budgets and scheduling windows to stay within platform limits.
- Made delivery fault-tolerant with **BullMQ** retries and backoff, idempotent job identity to prevent duplicate sends, and account-level failover so a single disconnected account never stalls a campaign.
- Implemented AI reply handling: inbound replies are classified and drafted with context, escalated to a human-in-the-loop review queue, and synced into a CRM pipeline for follow-up.
- **Tech:** Next.js, Express, PostgreSQL/Drizzle, Redis, BullMQ, AWS ECR/ECS/S3, Docker, Turborepo, GitHub Actions

Education

Maharshi Dayanand University (MDU)

Bachelor of Technology, Computer Science and Engineering

Aug. 2020 – July 2024

📍 Rohtak, Haryana