

Vishwam Dhavale

Backend Systems Engineer — Distributed Systems & AI Infrastructure

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Summary

Backend systems engineer specializing in distributed, event-driven systems and AI-powered backend infrastructure. 2+ years owning production platforms end-to-end schema design, API architecture, deployment, and performance tuning working directly alongside the CTO across a production SaaS product and an AI software agency.

Experience

Founding Engineer — Frover Labs Pvt. Ltd.

Oct 2023 – Present

Sole engineer owning architecture and delivery across two ventures alongside the CTO: the Frover influencer marketplace and The Wibble Labs software agency.

Frover — Influencer Marketplace (Next.js, Node.js, MySQL, Redis)

- Designed and shipped the entire backend from scratch — schema, service layer, and ingestion pipelines enabling a 50K+ influencer dataset indexed across Instagram and YouTube
- Eliminated manual rate-limit failures by building a resilient API integration layer for YouTube OAuth2 and Meta Graph API with token refresh, quota tracking, and graceful degradation
- Replaced manual campaign tasks with a distributed execution system on Cloudflare Workers — messaging, email, and task orchestration with retry logic and state persistence
- Reduced influencer discovery latency by replacing brute-force filtering with cosine-similarity scoring; evaluated semantic retrieval pipelines as a future migration path

The Wibble Labs — Agency & Internal Products (Cloudflare Workers, Next.js, Flask)

- Built and evolved a distributed WhatsApp AI agent on Cloudflare Workers with multi-model routing (Groq, NVIDIA), WebSocket streaming, tool-calling orchestration, verification/retry logic, and SQLite-backed per-user memory
- Delivered an LMS platform with Zoom API integration, automated attendance, and auto-graded assessments (Next.js + Flask + PostgreSQL)

Frontend Developer Intern — Magica Infotech LLP

Jul 2023 – Sep 2023

- Built reusable component library and integrated 15+ REST APIs using Next.js and Tailwind CSS

Projects

Automesh — Open-Source AI Workflow Engine

(Fastify, BullMQ, PostgreSQL, Redis, Next.js)

Event-driven automation platform connecting Stripe, GitHub, Slack, and Email via webhooks and scheduled triggers.

- Eliminated silent job failures with fault-tolerant BullMQ orchestration — retries, fallbacks, and typed variable interpolation between steps
- Cut time-to-workflow from hours to minutes with an AI natural language generation layer and ReactFlow visual builder

Pkg-lens — Dependency Bloat CLI

(TypeScript, Node.js, npm)

Zero-config CLI published to npm detecting and visualizing dependency bloat in JS/TS projects.

- Offline-first lockfile parsers for npm, pnpm, and yarn with deep transitive chain tracing; near-instant analysis on large monorepos without AST parsing

DevScope — Local AI Developer Assistant

(Next.js, Ollama, SQLite/LibSQL, ReactFlow)

- Eliminated API costs with a local Ollama embedding pipeline; surfaced module dependencies via interactive ReactFlow graph

CoverPilot — AI SaaS

(Next.js, Groq API, Vercel AI SDK, Turso, Clerk)

Live cover letter generation via resume parsing and streamed LLM inference — coverpilot.vishwamdhavale.com

Technical Skills

Languages: JavaScript, TypeScript, Python, SQL **Backend:** Node.js, Fastify, Express, Flask, BullMQ, WebSockets, OAuth2, JWT, RBAC

Databases: MySQL, PostgreSQL, MongoDB, Redis, SQLite/LibSQL, Drizzle ORM **Cloud/Infra:** Cloudflare Workers & Agents SDK, AWS, GCP, Docker, Nginx, CI/CD

Frontend: React, Next.js, React Native, Tailwind CSS, ReactFlow **AI:** LLM Integrations, Tool-Calling Orchestration, RAG, Vector Embeddings, Ollama

Education

B.E. Computer Engineering — Goa College of Engineering (2021–2024)

Diploma, Electronics & Communication — Govt. Polytechnic Bicholim (2018–2021)

Certifications

TypeScript 5+ — Frontend Masters (2026) — **Advanced JavaScript** — Scrimba (2026) — **RAG** — Scrimba (2025) — **AWS Cloud Practitioner** — AWS (2023) — **Google Cloud Foundations** — NPTEL (2023) — **Blockchain & Applications** — NPTEL (2023)