Piyush Makad

Full Stack AI Engineer | Agentic Workflows, MCP & LLM Products

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Professional Summary

Full Stack AI Engineer and backend specialist with 2.2+ years of experience shipping **production LLM products**, React applications, and distributed messaging systems. Owns AI features end to end—from data and model integration, **MCP tool orchestration**, and human-led evaluation to frontend interfaces, backend services, access controls, deployment, and observability. Built and operated systems on a platform managing **10M+ messages per day for 20K+ businesses**.

Work Experience

ChatDaddy *Hong Kong (Remote)*

Full-Stack Developer *08/2025 - Present*

- Architected and published a **120-tool MCP platform** for messaging, CRM, automation, and commerce, with typed schemas, team-scoped access, and approval-gated writes.
- Built a **hot/cold data partitioning layer** across MongoDB and cold storage with transparent access and Elasticsearch-backed search, maintaining double-digit millisecond response times.
- Built a production **AI prompt-to-flow generator** with React and OpenAI Responses, translating natural-language requests into structured, editable automation workflows; refined generated steps through human-led evals.
- Shipped paid **Daily AI Reports** for **3000+ teams** ($1/report; LLM cost ~5% via **OpenAI o4-mini**): analytics comparisons, prompts with fallback, billing, email, and React UI.
- Built free **WhatsApp Business insights for 2000+ teams**, helping customers raise **messaging limits and grow active chats** (the basis of billing); caching keeps LLM cost low.
- Created **Architect Suite**, whose code was adopted into the production Backend Doctor; correlated Kibana, frontend, and backend evidence and surfaced **257 patterns across 22 services**. AI-assisted triage cut diagnosis from **1–2 hours to 10–15 minutes** and backlog from **30–40 tickets to 2–3**, with human approval.
- Cut contact lookups **5×** and removed **290K+ API/ops day**; reduced decryption failures on retried WhatsApp messages from **65% to under 1%** across **4M+ daily messages**.
- Root-caused a production **PostgreSQL disk-full outage** to an orphaned replication slot retaining **200GB+ of WAL**.

CineStox *Mumbai (Remote)*

Software Development Engineer 1 *07/2024 - 06/2025*

- Implemented a **Node.js Order Book microservice** with Kafka and Socket.IO; authored LLD, data models, APIs, and fault handling, modeling **10K ops/sec at sub-50ms** for the MVP; used Redis caching to reduce database load by **40%**.
- Integrated **SabPaisa/Cashfree** with event-driven payment reconciliation, cutting failures **30%**; optimized PostgreSQL with Sequelize, indexes, and read replicas for **3× faster queries** and **99.9% uptime**.
- Replaced push notifications with an **event-driven Kafka–Firebase pipeline** using message queues, retry/backoff, dead-letter queues, and delivery tracking, achieving **95%+ delivery success** and consistent end-to-end observability.
- Built **analytics pipelines** for position summaries, option price history, and P/L dashboards using SQL isolation levels, Sequelize transactions, and distributed caching to preserve end-to-end data integrity.

Skills

AI & LLM	OpenAI Responses API · Claude Code · Tool Calling · Agentic Workflows · RAG · Prompt Design · Evals
Languages	JavaScript · TypeScript · Golang · Python · Java
Frontend	React.js · Next.js · Material UI · Tailwind CSS · shadcn/ui
Backend & APIs	Node.js · Express.js · Socket.io · MCP · SSE · OpenAPI/Swagger
Databases & Events	PostgreSQL · MongoDB · MySQL · ElasticSearch · Redis · AMQP/RabbitMQ · Apache Kafka · CDC/Debezium
Cloud & Tooling	GitHub · Docker · Oracle OKE · AWS EKS · CI/CD · Vercel · Kibana · Jest
Other	Event-Driven Architecture · System Design (HLD/LLD) · Microservices · API Design · Real-time Systems

Education

Swami Keshvanand Institute of Technology *Jaipur, India*

Bachelor of Technology in Computer Science and Engineering (Artificial Intelligence); **CGPA: 8.90/10.00** *Oct 2020 - June 2024*