

UDHAYAKUMAR

Senior Backend Engineer | Staff / Principal / Founding Engineer | Real-Time Data Systems
Bengaluru, India (Remote-first) | mail4udhaya@gmail.com | +91 7259948358 | linkedin.com/in/udhayakumar

SUMMARY

Expert in real-time data architecture and high-scale system design. At ConvertCart, rearchitected ingestion pipeline (Debezium CDC) reducing sync lag from hours to under a minute across 100+ stores. Built multi-layer data warehouse (BigQuery → ClickHouse). Led team of 6 engineers. 13+ years. Seeking Staff/Principal roles focused on data architecture and real-time infrastructure.

SKILLS

Databases: MySQL, ClickHouse, BigQuery, MongoDB, Redis, pgvector
Architecture: Microservices, CDC (Debezium), event-driven pipelines, data warehousing, system design
Cloud / Infra: GCP, GKE, Kubernetes, AWS (S3, EC2, Lambda), Pub/Sub, Datastream, Datadog, Grafana
Languages: Node.js, TypeScript, JavaScript, PHP
APIs: RESTful API design, development, third-party integration
E-commerce: Shopify, BigCommerce, WooCommerce, Magento, WordPress
AI / ML: Anthropic Claude API, RAG pipelines, LangGraph, Vercel AI SDK, pgvector

EXPERIENCE

Senior Product Development Lead Aug 2021 - May 2026

ConvertCart AI System Pvt Ltd | Bengaluru (Remote)

- Architected 50+ microservices with event-driven communication patterns (CDC via Debezium/Pub/Sub).
- Owned full data platform: warehouse design, end-to-end ingestion, real-time pipelines across 100+ e-commerce stores.
- Led team of up to 6 engineers across architecture decisions, code reviews, mentoring.
- Built multi-source segmentation engine (ClickHouse/MySQL/MongoDB joins) enabling complex merchant targeting without schema changes.

Senior Software Developer - Team Lead

Aug 2020 - Aug 2021

ConvertCart AI System Pvt Ltd | Bengaluru

- Rearchitected data ingestion from cron-based batch sync to real-time CDC pipeline (Debezium/Pub/Sub).
- Cut sync lag from hours-to-days to under a minute across 100+ stores, fixing stale/out-of-stock recommendation bugs.
- Initiated and built recommendation engine (IntelliBlocks) computing personalized product recommendations from activity signals.

Freelance Backend Engineering

Feb 2019 - Aug 2020

Independent Projects & Consulting | Remote

- Consulted on backend architecture for Series A startups, focusing on real-time data systems.
- Shipped independent products: Fruggy (Flutter + RAG, 1K+ downloads), geospatial transit platform, AI tools.
- Explored emerging technologies: RAG pipelines, Claude API integrations, modern frontend/backend architectures.

Software Development Lead

Aug 2018 - Feb 2019

Friday Media Group | Bengaluru

- Led backend development for Local/Niche Marketplace platforms, managing 3-6 developers.
- Managed full delivery cycle for web application features, coached engineers at junior and senior levels.

Senior Software Engineer - I

Mar 2016 - Jul 2018

Scientific Games | Bangalore

- Optimized MySQL schema (20M+ row tables) reducing regulatory reporting queries from 45min to 3min via index design + partitioning.
- Built and maintained JasperReports integrations for complex business reporting across multiple regions.

Software Analyst

Feb 2014 - Mar 2016

Scientific Games | Bangalore

- Built mission-critical B2C platform components, including game integration with Bally Systems APIs.

Web Developer

Sep 2012 - Jan 2014

Tenlegs | Bangalore

- Designed and built CSS-to-inline email template converter for consistent rendering across email clients.

Junior Software Engineer

Apr 2010 - Aug 2012

ISPG Technologies (I) Pvt Ltd | India

- Delivered multiple LAMP-stack web projects end-to-end.

INDEPENDENT PROJECTS

Fruggy (fruggy.in): Flutter grocery app with RAG-based recipe assistant (pgvector); 1,000+ Play Store downloads.

enbus.in (enbus.in): Tamil Nadu bus route finder with geospatial pipeline (GTFS, pg_trgm) across 93K trips, 2,234 stops.

briefmydoctor.com (briefmydoctor.com): AI appointment-prep tool using Claude Haiku via Vercel AI SDK.

HitReplAI: Chrome extension for AI reply enhancement (OpenRouter, Node.js, TypeScript, Supabase, Playwright).

CERTIFICATIONS

- Datastream MySQL to BigQuery
- Google SEO Fundamentals

EDUCATION

B.E., Computer Science and Engineering - Adhiyamaan College of Engineering (2005-2010)