

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

Led real-time data transformation from batch to streaming at scale, cutting sync lag from hours to under a minute across 100+ e-commerce stores. Architected 50+ microservices with event-driven patterns. Led teams of 6+ engineers. 13+ years building backend systems. Looking for Staff/Principal/Founding roles at remote-first startups.

SKILLS

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

EXPERIENCE

Senior Product Development Lead 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.	Aug 2021 - May 2026
Senior Software Developer - Team Lead 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.	Aug 2020 - Aug 2021
Freelance Backend Engineering 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.	Feb 2019 - Aug 2020
Software Development Lead 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.	Aug 2018 - Feb 2019
Senior Software Engineer - I 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.	Mar 2016 - Jul 2018
Software Analyst Scientific Games Bangalore Built mission-critical B2C platform components, including game integration with Bally Systems APIs.	Feb 2014 - Mar 2016
Web Developer Tenlegs Bangalore Designed and built CSS-to-inline email template converter for consistent rendering across email clients.	Sep 2012 - Jan 2014
Junior Software Engineer ISPG Technologies (I) Pvt Ltd India Delivered multiple LAMP-stack web projects end-to-end.	Apr 2010 - Aug 2012

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)