

UDHAYAKUMAR

Senior Backend Engineer | Staff / Principal / Founding Engineer | Real-Time Data Systems
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SUMMARY

Shipped independent products (Fruggy: 1K+ downloads, enbus.in, AI tools). Built full-stack systems end-to-end: data pipelines, microservices, frontends. Led teams of 6 engineers. Freelanced on Series A startup architecture consulting. 13+ years shipping systems. Seeking Founding Engineer roles at Series A-B startups with product/platform focus.

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).

SKILLS

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

EXPERIENCE

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

CERTIFICATIONS

- Datastream MySQL to BigQuery
- Google SEO Fundamentals

EDUCATION

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