

Kartikeya Dewal

Lead Engineer

Current Location: Noida (open to relocate)

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Portfolio: <https://kartikdewal.com>

Summary

Engineering Lead with 10+ years of experience in backend engineering, distributed systems, microservices, event-driven architecture, cloud-native platforms, and data engineering. Founding engineering team member at a disruptive Melbourne startup, contributing 5+ years to scaling an enterprise-grade sports technology platform through multiple growth phases, with deep experience in Go, TypeScript, Kafka, GraphQL, gRPC, Kubernetes, observability, and clean engineering practices. Currently associated with Publicis Sapient as a Lead Engineer, combining strong technical ownership with mentoring, cross-functional collaboration, and production-focused delivery.

Expertise

Skills & Tools

Architecture & Engineering

System Design, Microservices, Event-Driven Architecture, API Design, Performance Optimisation

Backend & Data

Go, TypeScript/Node.js, Python, PostgreSQL, Neo4j, Elasticsearch, Snowflake, DBT

Distributed Systems

Kafka, RabbitMQ, REST, GraphQL, gRPC, Protobuf

Cloud & DevOps

AWS, Docker, Kubernetes, Openshift, Helm, Terraform, GitOps, IaC

Observability & Operations

Telemetry, Instrumentation, Git, On-call Support

Leadership

Team Building & Mentoring, Cross-functional Collaboration

Work Experience

Lead Engineer | Publicis Sapient – Noida, India | Jun 2025 – Present

- Led team of engineers, delegating tasks, conducting code-reviews while driving iterative delivery.
- Implemented infrastructure provisioning and deployment from scratch using terraform, Argo CD on managed Kubernetes cluster.
- Implemented Tekton CI/CD pipelines on on-prem OpenShift cluster.
- Designed LangGraph based agent workflows for stateful AI orchestration.
- Provided technical mentorship to engineers across experience levels, supporting skill development, design reviews, and career growth.

Software Engineer | PlayHQ Sports – Melbourne, Australia | Sept 2019 – Sept 2024

- Wrote numerous GraphQL mutations, resolvers and data loaders in Go and TypeScript.
- Introduced gRPC using protobuf for language-neutral message schema in the backend to transition from monolith to microservices architecture.
- Developed multiple services with Go and gRPC.
- Created event driven services using RabbitMQ.
- Established real-time data streaming to Snowflake via Kafka (extract + load).
- Created data transformation models using DBT for Snowflake to complete ELT workflow.
- Configured Kubernetes helm charts for deploying new services and to create kafka topics.
- Instrumented microservices with Open Telemetry and integrated with Prometheus and Grafana.
- Handled production issues during on-call support.
- Reduced build tool license fee by migrating from Drone to GitHub Actions.
- Recognised for outstanding contributions to the data engineering and reporting solutions.
- Reduced deployment time by 30% by optimising end-to-end tests for faster builds.

Independent Consultant | MeteorTrek – Melbourne, Australia | Dec 2018 – Feb 2019

- Conceptualised and developed a Desktop-as-a-Service solution for Melbourne High School, providing students with remote access to Adobe creative software.
- Coordinated with stakeholders to gather comprehensive requirements, ensuring alignment with user needs, and oversaw the seamless testing and deployment of the application.
- Developed a user-friendly interface for the application, ensuring accessibility and ease of use for students and faculty.
- Conducted training sessions for faster adoption of the application features.

Software Engineer | Capita – Pune, India | Mar 2016 – June 2017

- Contributed as a backend engineer to the development of a social care services management application for the UK NHS.
- Developed RESTful APIs using Express and NodeJS.
- Documented APIs using Swagger.
- Implemented RabbitMQ producers and consumers to respond to API requests.
- Engineered data source/repository layer for MongoDB.

Systems Engineer | Infosys Pune, India | Mar 2015 – Mar 2016

- Facilitated migration of data to a Hadoop-based internal warehouse system for American Express, ensuring seamless and reliable data transition.

- Designed and implemented data migration solutions utilising MapReduce.
- Conducted comprehensive data integrity validations using Sqoop queries.

Associate Software Engineer | Accenture – Pune, India | Dec 2013 – Dec 2014

Education

2017 – 2019, Master of Business Information Technology

Royal Melbourne Institute of Technology, Melbourne, Australia

2009 – 2013, Bachelor of Technology in Computer Science

National Institute of Technology, Surat, India