

# Ayush Karn

Software Engineer & Solutions Architect

INDIA / NEPAL

REMOTE WORLDWIDE

hello@ayushkarn.dev

PROFILE

Software engineer and systems thinker building applications, cloud platforms, enterprise data systems, and grounded AI experiences. Focused on architecture that stays understandable as it scales.

EXPERIENCE

## Software Engineer II

2023 - PRESENT

HP Inc.

Building enterprise platforms across software, data, cloud, and architecture. Focus areas include solution architecture, metadata and lineage, cloud integration, and enterprise data platforms.

## Software Engineer

2021 - 2023

HP Inc.

Developed services and data products connecting operational systems with analytical platforms across backend services, data engineering, and engineering operations.

SELECTED IMPACT

## Enterprise Metadata & Lineage Platform

Designed integration workflows connecting ERP, warehouse, lakehouse, and metadata ecosystems while preserving ownership, provenance, and operational context.

TECHNICAL FOCUS

SOFTWARE

Python, C#, .NET, TypeScript, React, REST APIs

ARCHITECTURE

Azure, distributed systems, integration design, cloud platforms

DATA & AI

SQL, Databricks, DuckDB, pipelines, RAG, local LLMs

01 AI / DATA / PERSONAL FINANCE

## Local Finance Intelligence

A privacy-first system that parses bank statements, normalizes transactions, and enables local AI-driven financial insights.

Python / DuckDB / Ollama / LLMs

02 AI / KNOWLEDGE SYSTEMS

## Enterprise Knowledge Assistant

A retrieval-powered assistant for grounded answers across enterprise documentation and internal knowledge sources.

Python / RAG / Embeddings / Next.js

03 BACKEND / CLOUD ARCHITECTURE

## Cloud Event Platform

A scalable event-driven backend for asynchronous workloads across distributed cloud services.

.NET / Azure / Event Grid / Service Bus

04 SOFTWARE / OBSERVABILITY

## Developer Intelligence Dashboard

A unified observability workspace for pipelines, application workloads, and engineering operations.

Next.js / TypeScript / Python / Analytics

ENGINEERING PRINCIPLES

- 01 Design systems, not isolated features.
- 02 Understand before abstracting.
- 03 Reliability beats cleverness.
- 04 Privacy is an architectural decision.

LINKS

Portfolio: [ayushkarn.dev](https://ayushkarn.dev)

GitHub: [github.com](https://github.com)

Email: [hello@ayushkarn.dev](mailto:hello@ayushkarn.dev)

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