

# ABHIGYAN

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github.com/abster12

## EDUCATION

Indian Institute of Technology (B.H.U), Varanasi

July 2016 – July 2020

Bachelor of Technology (B.Tech)

## SKILLS

**Backend & Systems:** Spring Boot, Dropwizard, Kafka, Java, Python, Workflow Engines

**Cloud & Data:** AWS, Docker, Kubernetes, MySQL, ELK, CI/CD

**AI & LLM:** RAG, Multi-Agent Systems, Milvus, Claude Code, Cursor, Windsurf

## EXPERIENCE

**Walmart**

May 2024 – Present

*Software Engineer 3*

- Led performance optimization of **Start and Update Workflow APIs** (P95 ~200ms → ~130ms) and scaled the platform to **~1500 synchronous workflow executions per second** via query and infra tuning.
- Designed a **multi-tenant onboarding architecture** supporting multiple teams and **multiple workflow engines per tenant** in a shared cluster; owned data model, relationships, and lifecycle.
- Owned end-to-end **Orkes Workflow Engine** integration for **workflow-driven orchestration across backend and AI-powered systems** (SDK, config, runtime interop).
- Built a production **RAG + hybrid retrieval** platform (Docling, pdfplumber, Vision LLMs; **Milvus semantic + BM25 with RRF and cross-encoder reranking**) with eval and observability pipelines.
- Designed a **stateful multi-agent orchestration** system (task decomposition, parallel execution, dynamic model selection, **persisted state for pause/resume**) enabling human-in-the-loop code generation and review.
- Built internal **AI developer tooling** and introduced **spec-driven development** with LLMs across feature work.
- Mentored a junior engineer; owned services end-to-end within a **6-member backend team**, contributing to design reviews and technical decisions.

**Rakuten**

May 2023 – May 2024

*Software Engineer 2*

- Designed high-volume payment batch processing systems and APIs, enabling seamless third-party integrations across multiple Rakuten brands.
- Built a Java-based mock server framework to simulate external payment providers, improving integration test coverage and reliability.

**Podeum**

July 2022 – May 2023

*Founding Engineer*

- Founding backend engineer – sole owner of the platform across backend, infra, and data; built the product from **0 to ~10,000 daily active users** through launch, growth, and team ramp.
- Designed and shipped the full economy system – virtual currency, in-app purchases, and reward mechanics – and the game-rule layer (auth, data model, third-party API integration).
- Built a real-time live score and commentary feed on **Firestore and Java**, used as the live data backbone during the product's growth phase.

**Morgan Stanley, Bangalore**

Oct 2020 – Jun 2022

*Software Developer*

- Developed and maintained Big Data applications and set up CI/CD pipelines with Jenkins and Sonar, improving code quality and deployment workflows.