

# Kaustav Ghosh

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## EDUCATION

### Manipal Institute of Technology

B. TECH COMPUTER SCIENCE & ENGINEERING (w/ COMPUTATIONAL INTELLIGENCE)

Manipal, IN | 2018 – 2022

CGPA: 8.57/10

## WORK EXPERIENCE

### COUCHBASE | SOFTWARE ENGINEER

Bengaluru, IN | Jan 2023 – Present

- Architected an AI agent tutorial framework using **Capella vector database** with **LangGraph/LangChain/LlamaIndex** orchestration, and built an evaluation pipeline with **Arize Phoenix** for automated relevance, hallucination, and toxicity scoring
- Engineered enterprise data connectors for **GCP Looker Studio** and **Airbyte** ELT, and developed production RAG integrations with **Cohere**, **Claude AI**, **AWS Bedrock**, and **GraphRAG** using Microsoft's framework
- Built quickstart reference applications in **TypeScript/Next.js**, **Java/Spring Boot**, **Ruby on Rails**, and **PHP/Laravel** with **Docker** containerization, **Swagger** documentation, and **GitHub Actions CI/CD**
- Developed schema inference algorithms, a **React** import frontend, **MongoDB-to-Couchbase migration tools**, and expanded **React-TypeScript** test coverage from 60% to over 90% on the Capella cloud platform
- Contributed over 149 pull requests across two Couchbase organizations, spanning AI/ML integrations, SDK tooling, **IntelliJ IDEA** plugin features, and developer documentation

### HEVO DATA | SOFTWARE DEVELOPMENT ENGINEER INTERN

Bengaluru, IN | Jan 2022 – Jun 2022

- Designed and shipped an end-to-end **REST API connector** and **SDK** for Braze, implementing authentication, **Feign client** integration, and ETL polling services
- Triaged production issues on BigQuery and Marketo connectors via **Sentry/Coralogix** observability, and wrote **JUnit 5/Mockito** test suites

## PROJECTS

### FAMILIARISE -- FULL-STACK CONSULTING PLATFORM ↗

2023 – PRESENT

NEXT.JS, FLUTTER, PRISMA, SUPABASE, REDIS |

- Architected a consulting platform with **Next.js** and **Flutter** clients, **Prisma/Supabase** backend, and **Redis** caching, integrating **Razorpay** payments, **Stream** video, and **Novu** notifications
- Implemented booking algorithms, referral tracking with revenue sharing, role-based dashboards, and migrated auth from NextAuth v4 to **BetterAuth**, contributing 237 pull requests

### AI/ML IMPLEMENTATIONS ↗

PYTHON, PYTORCH, TENSORFLOW

- Built transformer architectures, GANs, DQN agents, video enhancement pipelines, stock forecasting systems, and a chess-playing RL engine across multiple open-source repositories

## SKILLS

**Languages:** TypeScript, Python, Java, Ruby, PHP, SQL, Bash

**AI/ML:** LangChain, LangGraph, LlamaIndex, PyTorch, Crew AI, Arize Phoenix, Langflow

**Frameworks:** React, Next.js, Spring Boot, Flutter, Prisma, Express.js

**Cloud & Data:** Couchbase, AWS Bedrock, Azure AI, Docker, GitHub Actions, GCP, Redis, Supabase

**Tools:** Git, IntelliJ IDEA, Swagger/OpenAPI, Postman, Jira, Confluence