

Aryan Shaw

Software Engineer

Bachelor of Technology

Kalyani Government Engineering College, Kalyani

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🔗 GitHub Profile

🌐 LinkedIn Profile

EXPERIENCE

• Software Engineer - Fullstack + AI

September 2025 – February 2026

Instead Tax

Bengaluru

- Engineered a persistent vector memory system using **Milvus** embeddings, improving agent personalization and response relevance by **30–40%**.
- Built an agentic shell-EQL execution layer enabling **LLM agents** to act on the file system through seamless command-query translation.
- Enhanced agent intelligence and compliance by adding live web search in chat and implementing Go services for state schema-parsing.

• Software Developer - AI

December 2023 – August 2025

Atrean

Bengaluru

- Led development of Atrean, an LLM-powered analytics platform enabling natural language queries on **7M+ row datasets** across multi-file inputs.
- Built robust **ELT pipelines** (Airbyte → ClickHouse → dbt) with 90%+ schema mapping accuracy and **85%** faster setup time.
- Architected a multi-agent LLM backend using **LangChain + hybrid search** (vector + keyword), reducing hallucinations by **60%** and improving answer quality by **70%**.
- Engineered a COD management system for Deliveryplus, streamlining data workflows for 600+ hubs and reducing reporting turnaround for **3000+** employees from days to hours.
- Integrated Tecextract OCR and launched an admin portal to track **600k+** daily uploads across 400+ hubs.
- Developed Spark — a **microservices**-based dating app — with scalable real-time chat infrastructure utilizing Redis, AWS SQS, and Socket.io.

• Mobile App Development Intern

November 2022 – February 2023

Ekalsutra

Remote

- Built and maintained a parent-facing ERP mobile app adopted by **200+** schools, enabling real-time access to student records, fee payments, and academic updates.

PROJECTS

• Melina Studio | Cursor for Canvas

2026 – Present

A Figma-like infinite canvas with an AI-powered system that edits visual elements via natural language.

- Built the **first “Cursor for Canvas”** — an AI that doesn’t just suggest edits but directly executes them: users describe, AI draws, shapes appear in real-time via WebSocket-streamed tool calls.
- Designed a **visual-context injection system** where AI receives annotated canvas images with shape metadata, enabling it to reason spatially and modify specific elements by reference.
- Architected a **multi-provider LLM orchestration layer** (Groq, Claude, Gemini) with hot-swappable models, unified tool schemas, and sub-100ms streaming latency to canvas. 🔗 [Link](#)

SKILLS

Languages: Python, TypeScript, JavaScript, Java, GoLang

Frameworks & Libraries: FastAPI, Express.js, React.js, Vue.js, React Native, Next.js, Nuxt.js

Databases: ClickHouse, PostgreSQL, MongoDB, Redis, Pinecone

Cloud & DevOps: AWS (EC2, S3, SES, SQS), Docker, GCP, Nginx

AI/ML & LLMs: RAG pipelines, LangChain, LangGraph, OpenAI, Anthropic, Groq

Data Engineering: ELT pipelines, vector search, synthetic analytics, data dictionaries, Airbyte, dbt

Real-time Communication: WebSockets, Socket.io, Twilio, Expo Notifications

EDUCATION

• Bachelor of Technology in Electronics and Communication

2019-23

Kalyani Government Engineering College, Kalyani

CGPA: 8.45

POSITIONS OF RESPONSIBILITY

• Video Editing and Design Elixir Magazine - Jadavpur

January - August 2022

- Led design of 60+ interior magazine pages with visually compelling layouts and high-quality aesthetics.

TECHNICAL WRITING

Medium Technical Blog: medium.com/@aryanrot234