

Ardhendu Pramanik

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PROFESSIONAL SUMMARY

Software Engineer with 2+ years shipping production-grade Next.js, React, and TypeScript applications across logistics and AI-powered products. Built CareerLens (Python/FastAPI RAG backend) and Ghost AI (real-time AI collaboration platform), spanning both frontend AI-native UX and backend AI infrastructure. Practitioner of Spec-Driven Development and AI-assisted engineering (Claude Code, OpenRouter, CodeRabbit).

WORK EXPERIENCE

A2ZPORT · Software Engineer

Remote — Long Beach, CA · Oct 2023 – Sep 2025

- Engineered scalable transport and container-tracking modules (Next.js App Router, React, TypeScript) powering **300+ active shipments daily**; led system design for dispatch, tracking, and reporting workflows across a live multi-team logistics platform.
- Architected a library of **25+ reusable, accessible UI components** following consistent design patterns, reducing cross-module duplication by ~40% and accelerating feature delivery across teams.
- Boosted performance via Redux Toolkit (re-renders ↓35%), React Query caching (load time ↓20%), Zod runtime validation, and CI/CD pipelines via GitHub Actions.

The Internet Folks · Software Engineer

Bhopal, MP · Aug 2022 – Apr 2023

- Delivered production features in React / Next.js across multiple client products, translating Figma designs into pixel-accurate, responsive, and accessible interfaces meeting web performance standards.
- Established unit and integration testing standards (Jest, RTL) for critical UI components; drove code-review practices improving team-wide consistency and reducing regression rates.

PROJECTS

CareerLens — AI Resume-to-JD Matching Tool · Live · Code

Personal Project · 2026

- Built a full-stack **RAG** pipeline from scratch — text chunking, vector embeddings, and pgvector cosine-similarity search to retrieve resume sections most relevant to any job description.
- Engineered a FastAPI backend (service-layer architecture, Pydantic, SQLAlchemy ORM, pytest) with structured Google Gemini pipelines parsing JSON behind defensive error handling for production reliability.
- Built a Next.js 16 / React 19 frontend with Server Actions and a custom animated SVG score gauge; deployed full stack (Render + Vercel + Supabase) with environment separation and connection pooling.

Ghost AI — AI-Native Real-Time Collaboration Platform · Live · Code

Personal Project

Next.js 16 · React 19 · TypeScript · Liveblocks (CRDT) · React Flow · Trigger.dev · OpenRouter · Prisma · PostgreSQL · Clerk · Vercel Blob

- Built a CRDT multiplayer canvas (Liveblocks, React Flow) with agentic LLM pipelines (OpenRouter, structured outputs + tool calling) converting prompts into live architecture diagrams via a schema-validated action DSL, plus durable background execution (Trigger.dev) securing **11 API routes** with Clerk auth and Zod validation.
- Engineered conflict-free shared state with live cursors and presence tracking for real-time multiplayer editing, backed by SHA-256-idempotent retryable background jobs and a two-tier data layer (PostgreSQL via Prisma + Vercel Blob).

Transport Management System — A2ZPORT · Live

Next.js · Supabase · Prisma · Redux · Tailwind · Zod

- Designed modular dispatch-workflow modules with Zod-validated dynamic forms, covering shipment assignment, driver scheduling, and status tracking across a live multi-team logistics platform.
- Structured role-based authorization with a Prisma + Supabase data layer and reusable form/table primitives, accelerating delivery of new operational modules.

IVCA — The Internet Folks · Live

Next.js · Formik · Chakra UI · React Query · Jest

- Built responsive, accessible UI for the **Indian Venture and Alternate Capital Association** — serving 250+ PE, VC, and alternative-investment funds — with optimized data-fetching (React Query), Formik-driven forms, and integration test coverage (Jest).

SKILLS

Languages: TypeScript, JavaScript (ES2023+), Python, SQL

Frontend: Next.js (App Router), React 19, Redux Toolkit, React Query, Tailwind CSS, shadcn/ui, React Flow, Web Performance, Accessibility

Backend & APIs: Node.js, Next.js API Routes / Server Actions, REST APIs, Authentication, Authorization, Zod, Liveblocks (CRDT), Trigger.dev

AI Engineering: LLM Applications, RAG, Vector Search (pgvector), Agentic Workflows, Structured Outputs, Tool Calling, Prompt Engineering, Google Gemini, OpenRouter, Claude Code, CodeRabbit, Spec-Driven Development, AI Product Development

Data & Infra: PostgreSQL, Prisma, MongoDB, Supabase, Clerk, Vercel, Git, GitHub Actions, CI/CD

Engineering: System Design, Software Architecture, Design Patterns, Testing (Jest, RTL), Agile, Scrum

EDUCATION

B.Tech, Electronics & Communication (Lateral Entry) — CGPA 8.83/10

Aug 2019 – Jun 2022

Maulana Abul Kalam Azad University of Technology (MAKAUT)

Diploma, Electronics & Communication Engineering — CGPA 9.3/10

Aug 2016 – Jun 2019

WBSCTVESD

CERTIFICATIONS & ACTIVITIES

- Certifications:** The Complete Web Development Bootcamp — Dr. Angela Yu (Udemy) · JavaScript · SQL · React
- Blog:** Authored technical articles on React performance and TypeScript patterns — medium.com/@Ardhendu_init_