



## CONTACT

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# ARKA LAL CHAKRAVARTY

AI ENGINEER | FULL-STACK ENGINEER

## PERSONAL PROFILE

AI Engineer and Full-Stack Software Engineer with 3.7+ years of experience building and scaling production-grade web and AI products. Strong expertise in Next.js (App Router), Node.js, MongoDB, Python (FastAPI), and Generative AI (LLMs, RAG, agentic workflows). Proven ability to ship end-to-end SaaS platforms, automation systems, and AI-powered products used by real users and businesses.

## TECHNICAL SKILLS

- **Frontend:** React, Next.js 16 (App Router), JavaScript, TypeScript, HTML, CSS, SCSS
- **Backend:** Node.js, Express, Python, FastAPI, REST APIs
- **Databases:** MongoDB, SupabaseDB, Vector Databases (Pinecone / Qdrant / pgvector)
- **AI/GenAI:** LLMs (OpenAI, Claude, OpenRouter), RAG, embeddings, prompt engineering, agentic workflows
- **Infra & Tools:** Vercel, Git, CI/CD, Chrome Extensions, API integrations

## WORK EXPERIENCE

### Lead Software Engineer - Epigroww Global

Sept 2025 - Present

- Leading development of a full-scale influencer marketing platform - [web.trydisco.in](http://web.trydisco.in) using Next.js 16, Node.js, and MongoDB.
- Integrated Instagram analytics (RapidAPI) and Phyllo APIs for creator discovery, filtering, and profile enrichment.
- Designed scalable backend architecture and optimized database queries for fast profile retrieval.
- Built internal AI automations for outreach and operations, reducing manual effort by ~30%.

## Freelance Software Engineer - Self-employed

Jan 2025 - Aug 2025

- Delivered multiple AI-powered SaaS MVPs end-to-end: product design → frontend → backend → deployment.
- Built agentic automation workflows using AutoGen and FastAPI to orchestrate multi-step AI tasks.

## AI Engineer (Contract) — Helionix Tech

Feb 2025 - Jun 2025

- Built a social media content automation platform using LLM-powered workflows.
- Implemented multi-agent systems with tool calling and built a premium LinkedIn chrome extension.

## AI Engineer - ScaleGenAI.

July 2024 - Dec 2024

- Developed and shipped GenAI features for B2B automation products.
- Integrated RAG pipelines and LLM workflows into production systems and built several SaaS applications.

## Software Developer - Infojini Inc.

March 2022 - July 2024

- Built and maintained web applications for US government and healthcare-related clients.

## PROJECTS

### NixBuilder — AI App Builder Platform

AI-powered platform that enables users to build full SaaS MVP applications end-to-end using natural language prompts, without writing code.

**Tech:**Next.js 16 (Full Stack), Node.js, Supabase, OpenRouter LLM APIs, Vercel AI SDK

- Built an AI-driven app builder where users describe their product idea in a studio chat interface and the system generates the complete application.
- Designed a coding agent architecture that scaffolds frontend, backend, and data layers automatically from prompts.
- Enabled live preview and testing of generated apps within seconds of build completion.

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[!\[\]\(83bbbd261710c59db0214aa27b2edc0d\_img.jpg\) Project Page](#)

## AI RAG Copilot — Custom Knowledge-Based AI Assistant

Retrieval-Augmented Generation (RAG) assistant that allows users to chat with private knowledge bases and receive contextual responses.

**Tech:** NodeJS, Next.js, Vector Databases, OpenRouter, RAG

- Architected a production-grade RAG system combining embeddings and semantic search.
- Enabled conversational access to structured and unstructured data.

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### Additional Projects

- TalTracker — AI hiring & talent tracking platform for managing recruitment pipelines
- CawLab — AI-powered 2D floor-plan generator from text prompts & structured inputs (MVP)
- BrowzPot — AI browser extension for drafting emails inside Gmail (preview live)

[View more projects: arkalalchakravarty.com/#projects](https://arkalalchakravarty.com/#projects)

## EDUCATION

**B.A. in History — North Bengal St. Xavier's College**  
2018 – 2021