

# ANKIT PATRA

Senior Software Engineer · React / TypeScript / Full-Stack · GenAI Integration

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## experience

Apr 2022 – Present

### ONE CONVERGENCE DEVICES PVT. LTD.

HYDERABAD, INDIA

*Senior Software Engineer · MLOps platform and AI-powered enterprise products*

#### DocMind (Oct 2025 – Present)

- Building scalable document-intelligence platform on **Kubernetes microservices**; sustains **10+ docs/min** baseline and scales **vertically to 30+ docs/min** under peak load.
- Designed event-driven ingestion (**S3** → **Lambda** → **Redis** queues) and implemented a **RAG pipeline**: documents chunked, embedded, and indexed in **ChromaDB** for **semantic search**; **prompt-engineered** LLM extraction via **LiteLLM** with **Langfuse** tracing; low-confidence outputs routed to human-review queue.

#### Kasu.AI (Feb 2025 – Oct 2025)

- Built a **Backend-for-Frontend layer on Next.js API routes** that orchestrates atomic backend APIs into composite user-action endpoints, reducing FE↔BE roundtrips and centralizing auth/permission checks.
- Cut accounts-payable invoice approval cycle **from 1–3 days to under 30 minutes** by shipping role-based multi-stage approvals, real-time exception handling, and automated notifications.
- Integrated **CoPilotKit** with **tool-calling** capabilities to expose natural-language querying over invoice workflows; shipped reusable component library (data grids, PDF/Excel viewers, real-time AP analytics) in **React, TypeScript, Shadcn**.

#### Dkubex (Dec 2023 – Feb 2025)

- Re-architected MLOps platform UI for LLM/embedding deployment using **React, TypeScript, Shadcn (Radix), and RTK Query**; replaced legacy flows with a unified resource model and integrated **LiteLLM and Langfuse** for live model observability.
- Established design-system and testing foundations: **Storybook** for the shared library, **Jest + React Testing Library** for component coverage, and **Tanstack Form + Zod** for type-safe dynamic forms.

#### Rargus (Nov 2022 – Dec 2023)

- Delivered **AWS AppSync GraphQL** layer fronting DynamoDB to power a typed, low-latency **React + TypeScript** UI; hardened auth with **Cognito** (signed requests, JWT validation, IAM-scoped access).
- Shipped serverless backends on **Lambda + API Gateway**, ran long-running jobs on **AWS Fargate** with Lambda/SNS triggers, and set up **CI/CD via Amplify ↔ GitHub**.

Jan 2020 – Apr 2022

### DELOITTE CONSULTING INDIA PVT. LTD.

HYDERABAD, INDIA

*Business Analyst · Front-end engineering on enterprise consulting engagements*

- At Deloitte Application Studios, shipped **React + TypeScript** features against a **.NET** backend and triaged production defects in a regulated enterprise environment.
- Built browser-based **conversational agent** for US-hospital accounts-receivable workflows (Kaiser Permanente): **React** UI, **Node.js** backend, MongoDB, with **Google Dialogflow** for NLP intent recognition.

## skills

- **Frontend:** React, Next.js, TypeScript, Redux Toolkit / RTK Query, Shadcn (Radix), Tailwind, Framer Motion, Tanstack Form, Zod
- **APIs & Architecture:** REST, GraphQL (AWS AppSync), BFF pattern (Next.js), microservices, event-driven pipelines; Node.js, Python
- **Cloud, Data & DevOps:** AWS (Lambda, API Gateway, S3, DynamoDB, Cognito, AppSync, Amplify, Fargate, SNS, Batch), Docker, Kubernetes, CI/CD; PostgreSQL, MongoDB, DynamoDB, Redis
- **AI / GenAI:** RAG pipelines, ChromaDB, semantic search, LiteLLM, Langfuse, CoPilotKit, OCR pipelines, embedding generation, human-in-the-loop workflows
- **Testing:** Jest, React Testing Library, Storybook

## education

Aug 2015 – May 2019

### VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY (UCE)

BURLA, INDIA

*B.Tech, Computer Science & Engineering · CGPA 8.36*

## certifications

Jun 2021 – Jun 2024

### AWS Certified Solutions Architect – Associate

AMAZON WEB SERVICES

*Verification: aws.amazon.com/verification · ID B98XFS0DJBF4QN5G*